FIG. 1

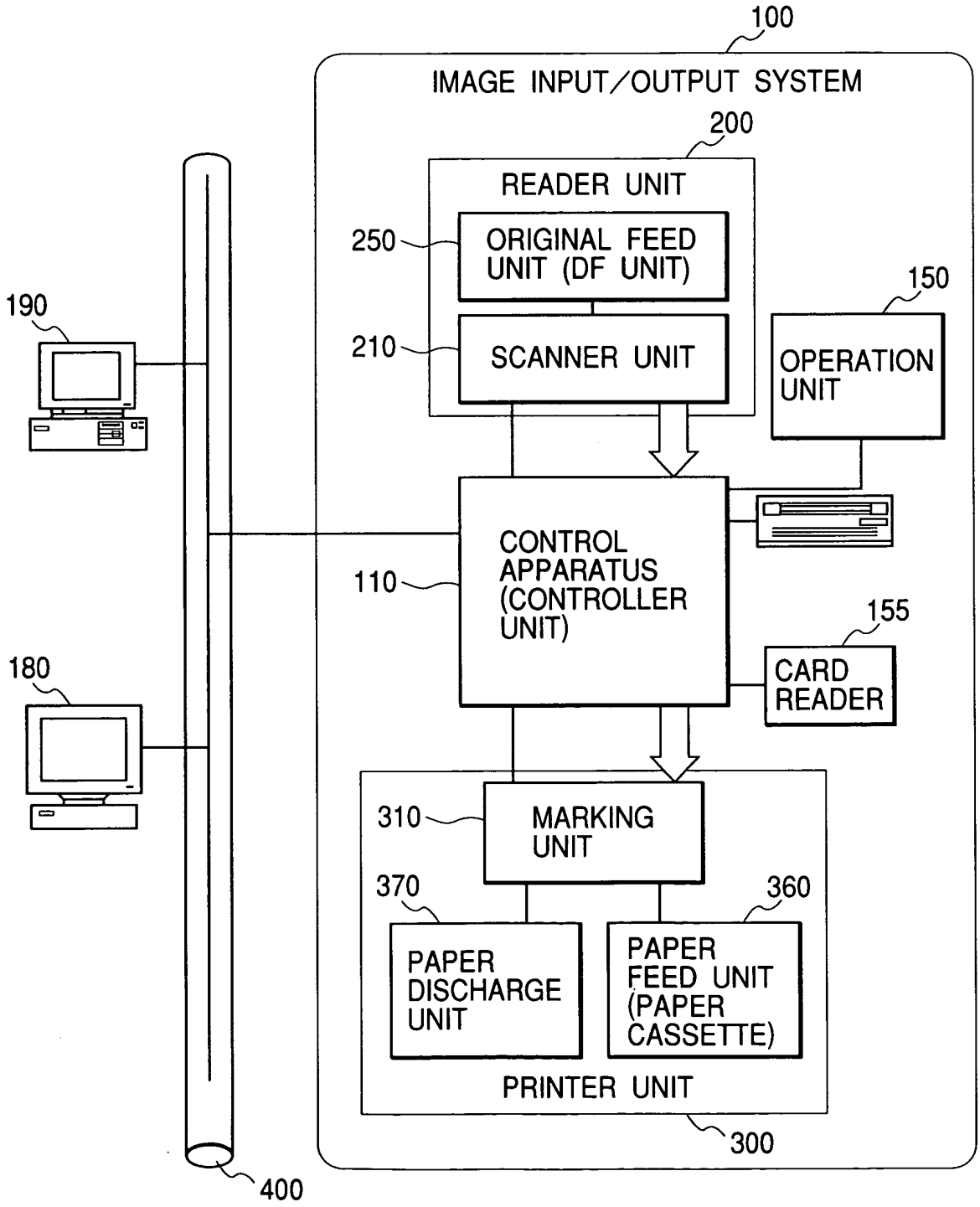
100
IMAGE INPUT/OUTPUT SYSTEM
200
READER UNIT
250
ORIGINAL FEED UNIT (DF UNIT)
210
SCANNER UNIT
150
OPERATION UNIT
190
180
CONTROL APPARATUS (CONTROLLER UNIT)
110
155
CARD READER
310
MARKING UNIT
370
360
PAPER DISCHARGE UNIT
PAPER FEED UNIT (PAPER CASSETTE)
PRINTER UNIT
300
400

FIG. 2

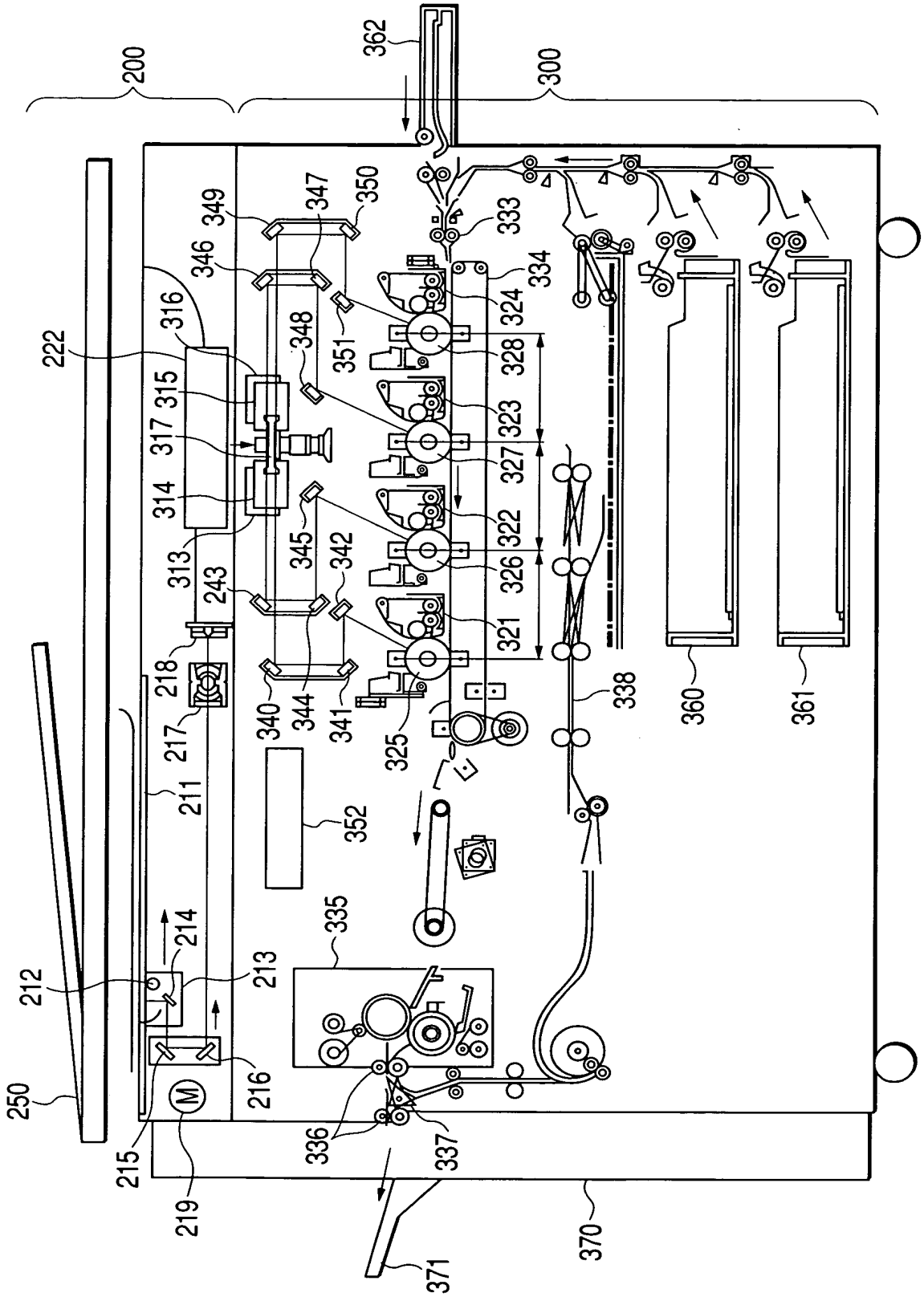
200
300
362
222
316
315
317
314
313
243
218
217
211
212
214
213
216
215
219
250
M
346
349
347
350
348
351
345
342
344
340
341
325
352
335
336
337
371
370
333
334
324
328
323
327
322
326
321
338
360
361

FIG. 3

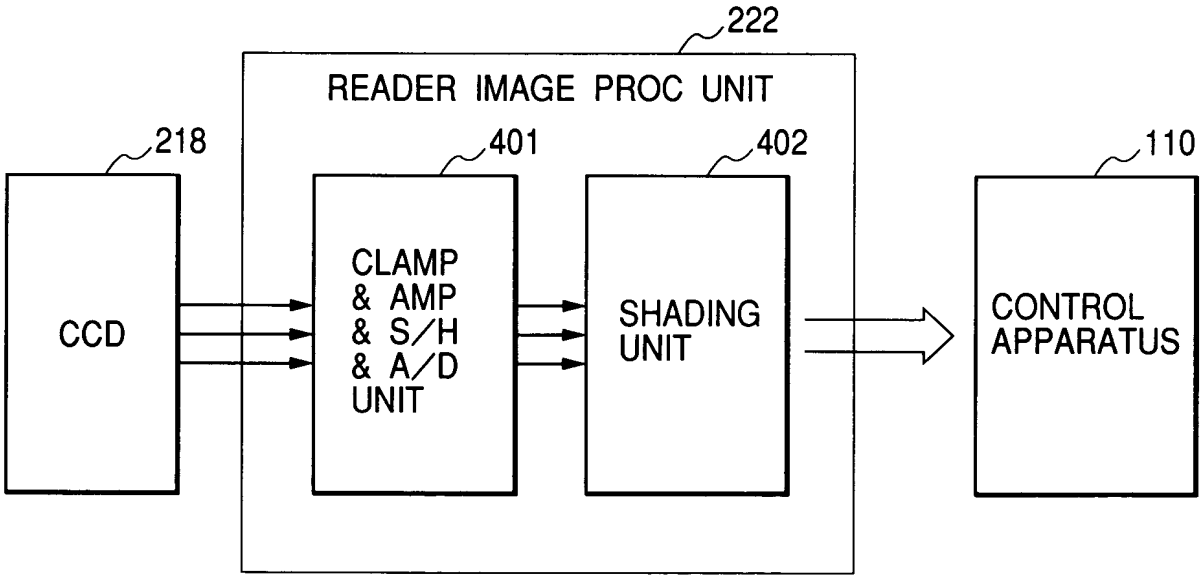
222
READER IMAGE PROC UNIT
218
401
402
110
CCD
CLAMP
& AMP
& S/H
& A/D
UNIT
SHADING
UNIT
CONTROL
APPARATUS

FIG. 4

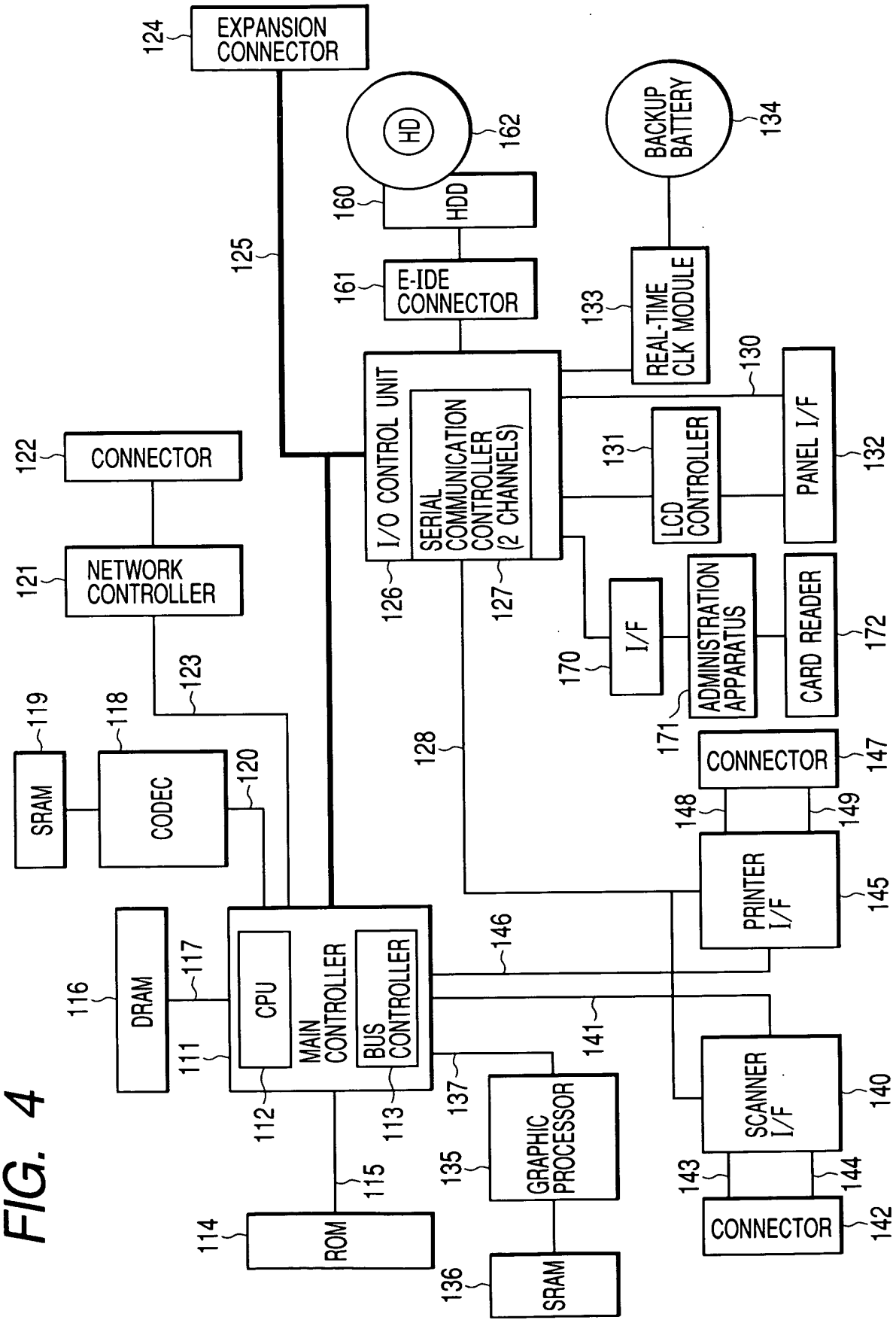
124
EXPANSION CONNECTOR
HD
162
160
HDD
BACKUP BATTERY
134
125
161
E-IDE CONNECTOR
133
REAL-TIME CLK MODULE
130
122
CONNECTOR
I/O CONTROL UNIT
SERIAL COMMUNICATION CONTROLLER (2 CHANNELS)
131
LCD CONTROLLER
PANEL I/F
132
121
NETWORK CONTROLLER
126
127
170
I/F
ADMINISTRATION APPARATUS
CARD READER
172
171
123
119
118
128
CONNECTOR
147
SRAM
CODEC
120
148
149
PRINTER I/F
145
116
DRAM
117
CPU
MAIN CONTROLLER
BUS CONTROLLER
146
111
141
112
113
137
GRAPHIC PROCESSOR
SCANNER I/F
140
135
115
143
144
114
ROM
CONNECTOR
142
136
SRAM

FIG. 5

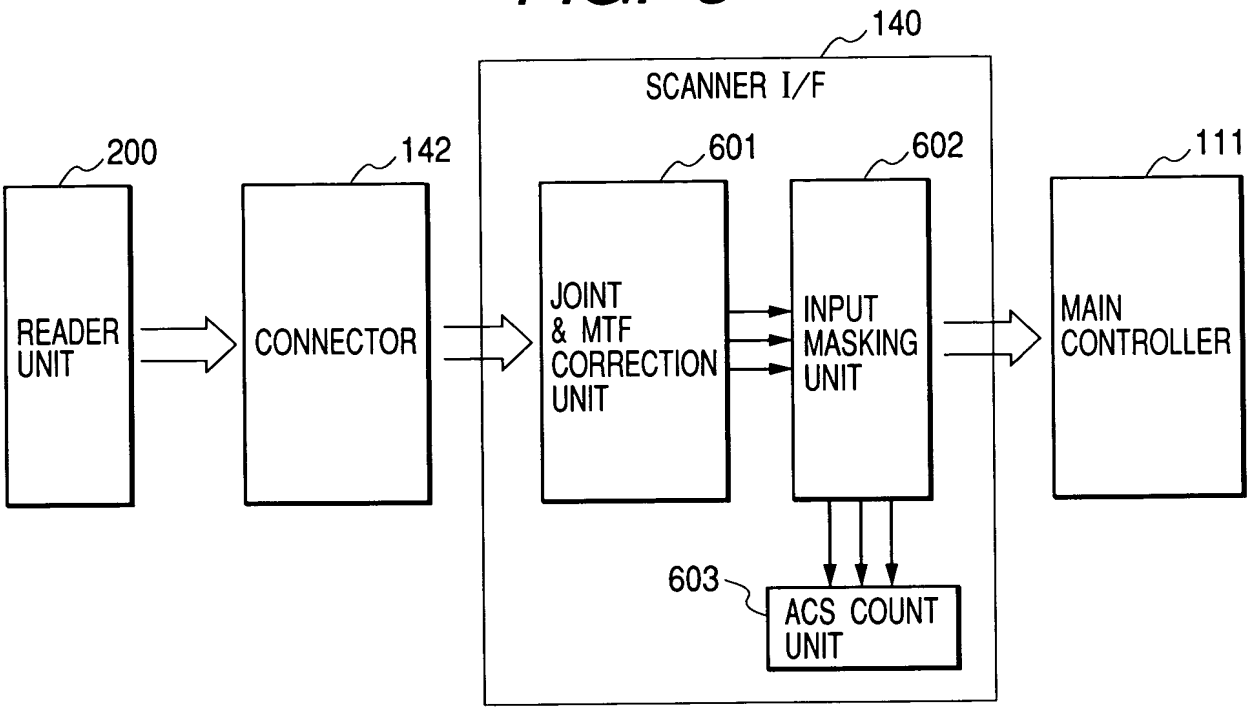
140
SCANNER I/F
200
READER UNIT
142
CONNECTOR
601
JOINT & MTF CORRECTION UNIT
602
INPUT MASKING UNIT
111
MAIN CONTROLLER
603
ACS COUNT UNIT

FIG. 6

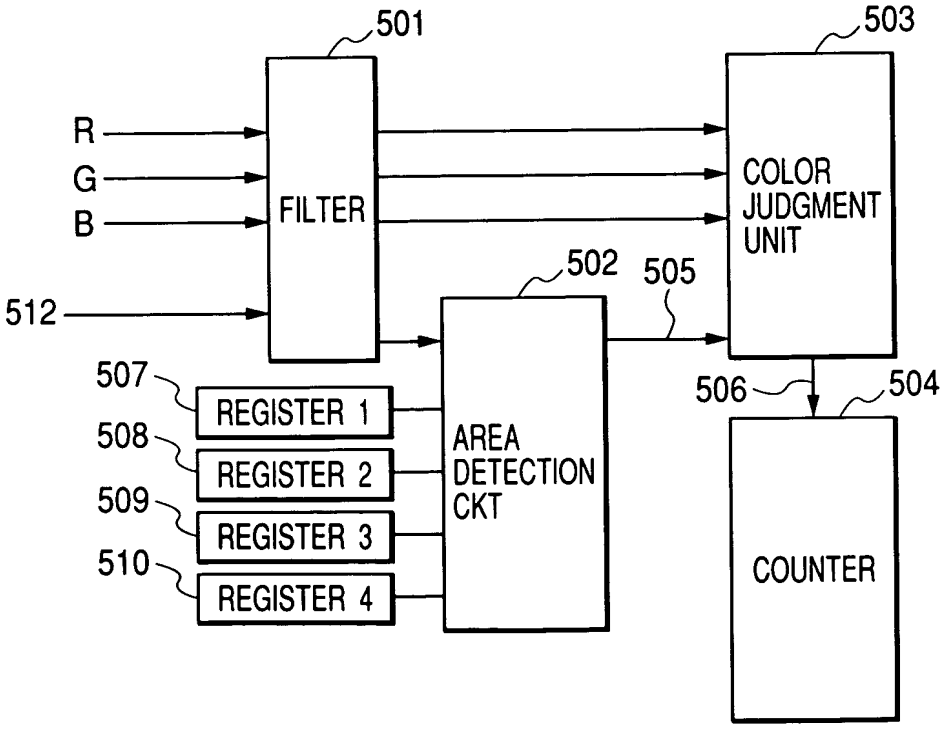
501
503
R
G
B
FILTER
COLOR JUDGMENT UNIT
512
502
505
507
REGISTER 1
508
REGISTER 2
509
REGISTER 3
510
REGISTER 4
AREA DETECTION CKT
506
504
COUNTER

FIG. 7

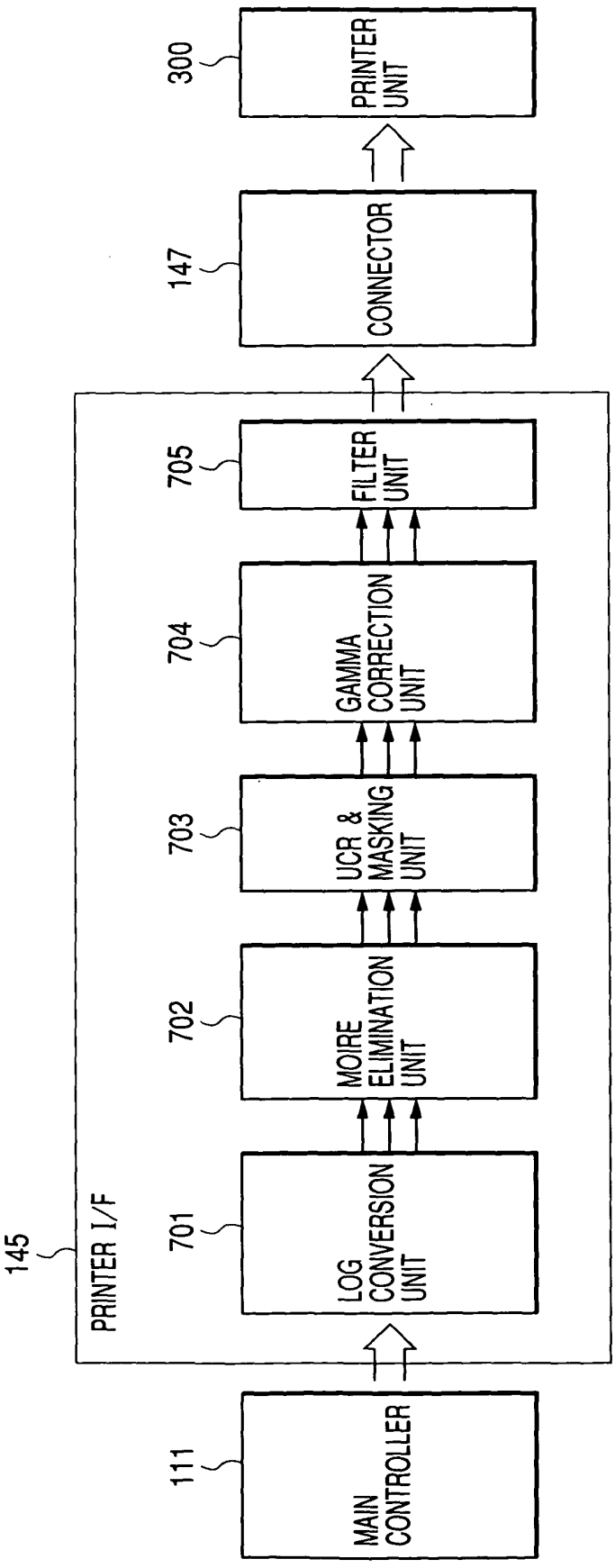
111
MAIN CONTROLLER
145
PRINTER I/F
701
LOG CONVERSION UNIT
702
MOIRE ELIMINATION UNIT
703
UCR & MASKING UNIT
704
GAMMA CORRECTION UNIT
705
FILTER UNIT
147
CONNECTOR
300
PRINTER UNIT

FIG. 8

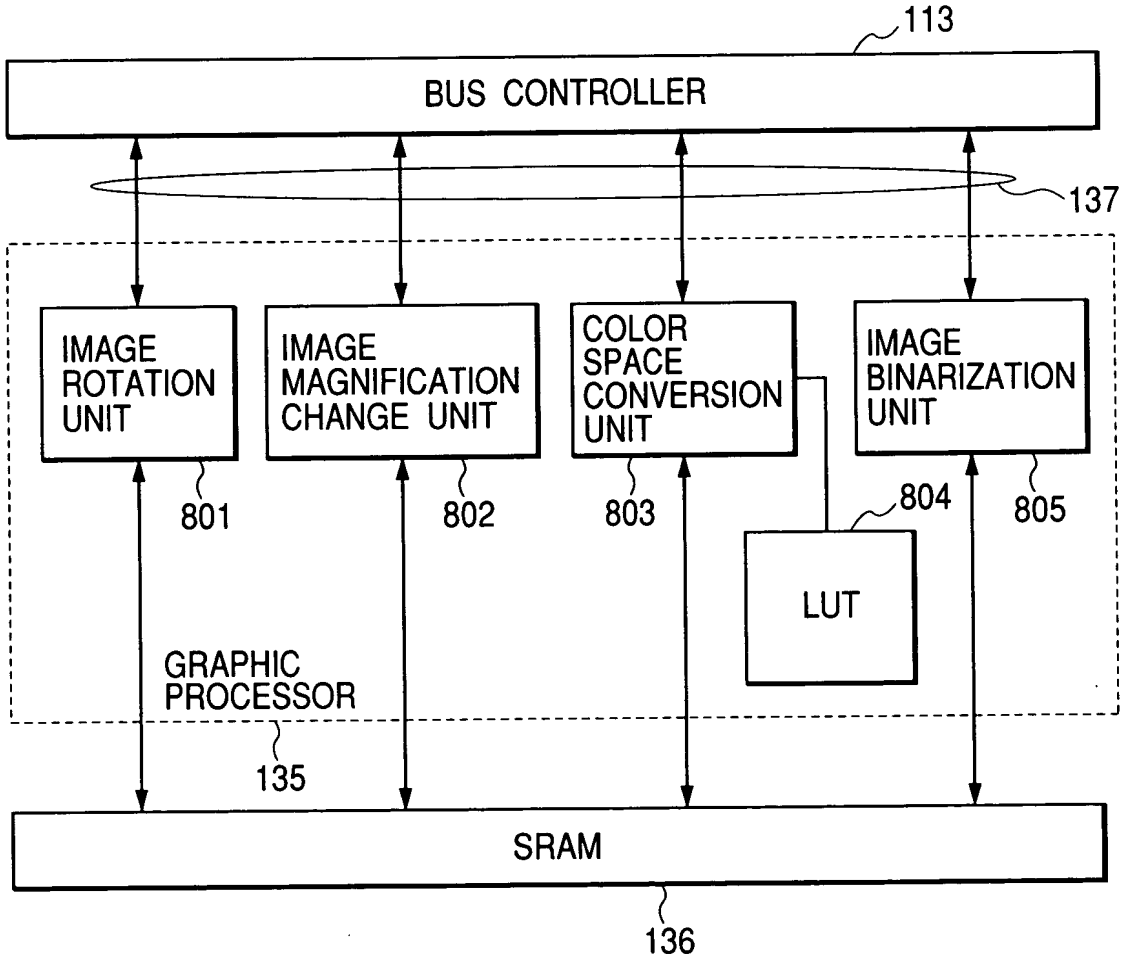
113
BUS CONTROLLER
137
IMAGE ROTATION UNIT
IMAGE MAGNIFICATION CHANGE UNIT
COLOR SPACE CONVERSION UNIT
IMAGE BINARIZATION UNIT
801
802
803
804
805
LUT
GRAPHIC PROCESSOR
135
SRAM
136

FIG. 9

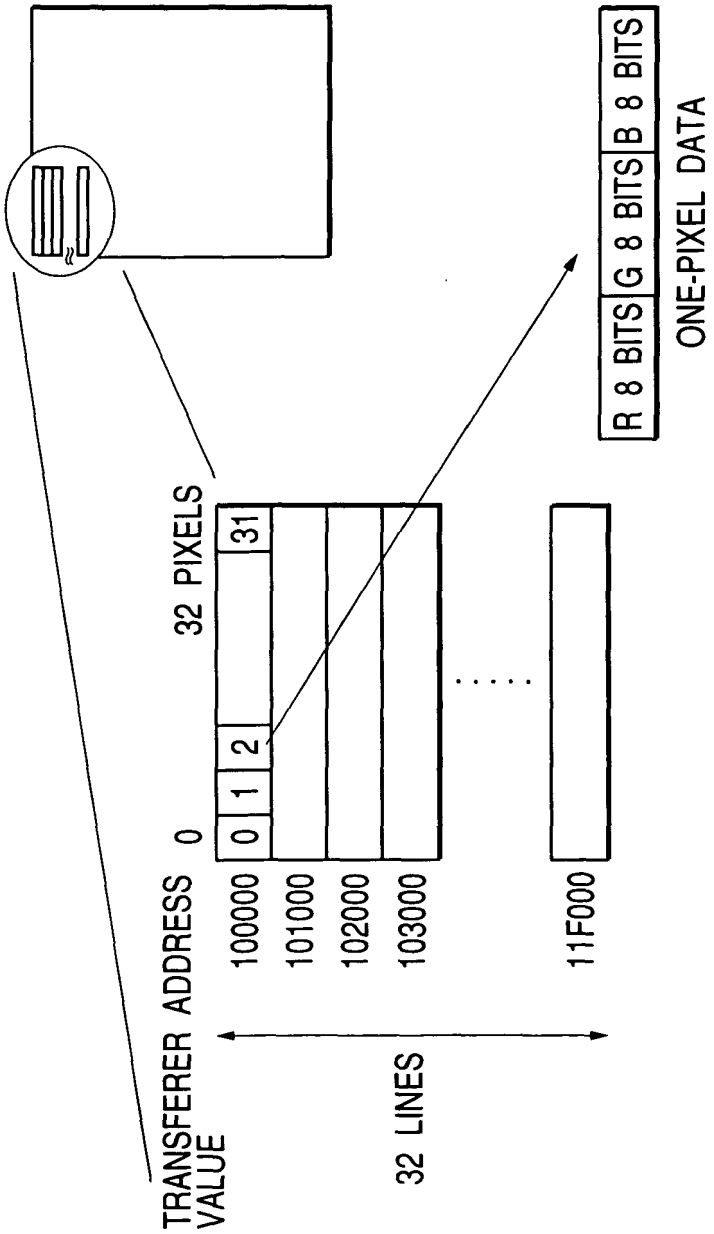
TRANSFERER ADDRESS VALUE
32 PIXELS
0
1
2
31
100000
101000
102000
103000
11F000
32 LINES
R 8 BITS
G 8 BITS
B 8 BITS
ONE-PIXEL DATA

FIG. 10

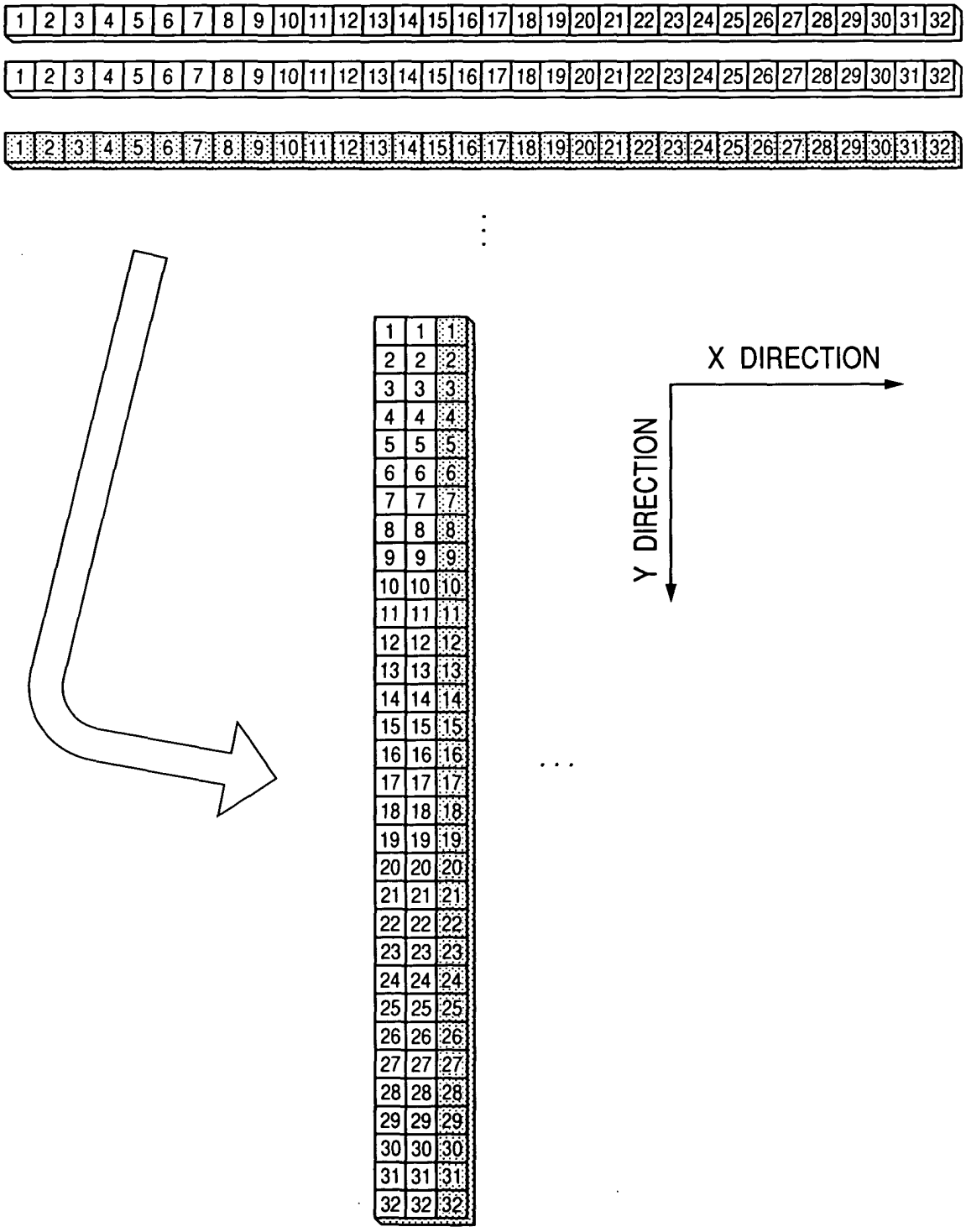
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
1 1 1
2 2 2
3 3 3
4 4 4
5 5 5
6 6 6
7 7 7
8 8 8
9 9 9
10 10 10
11 11 11
12 12 12
13 13 13
14 14 14
15 15 15
16 16 16
17 17 17
18 18 18
19 19 19
20 20 20
21 21 21
22 22 22
23 23 23
24 24 24
25 25 25
26 26 26
27 27 27
28 28 28
29 29 29
30 30 30
31 31 31
32 32 32
X DIRECTION
Y DIRECTION

FIG. 11

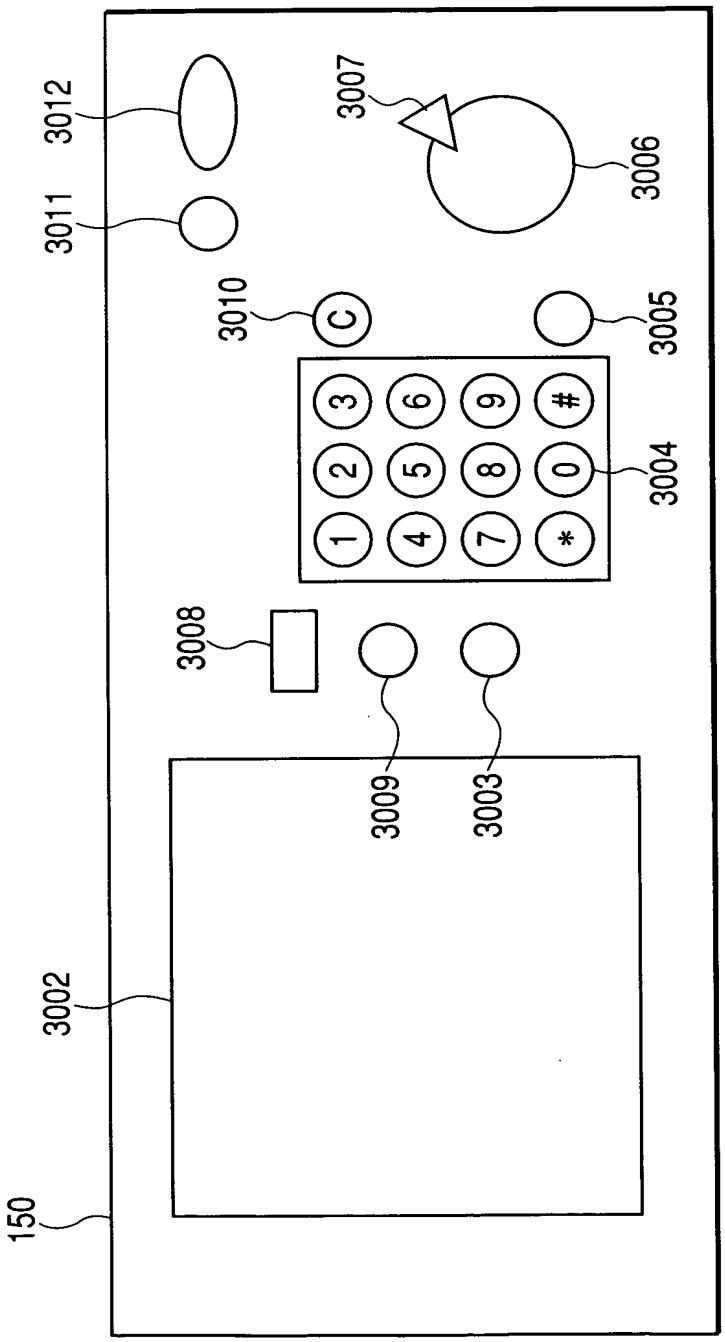
150
3002
3009
3003
3008
3004
3010
3005
3007
3006
3012
3011
C
1
2
3
4
5
6
7
8
9
*
0
#

FIG. 12

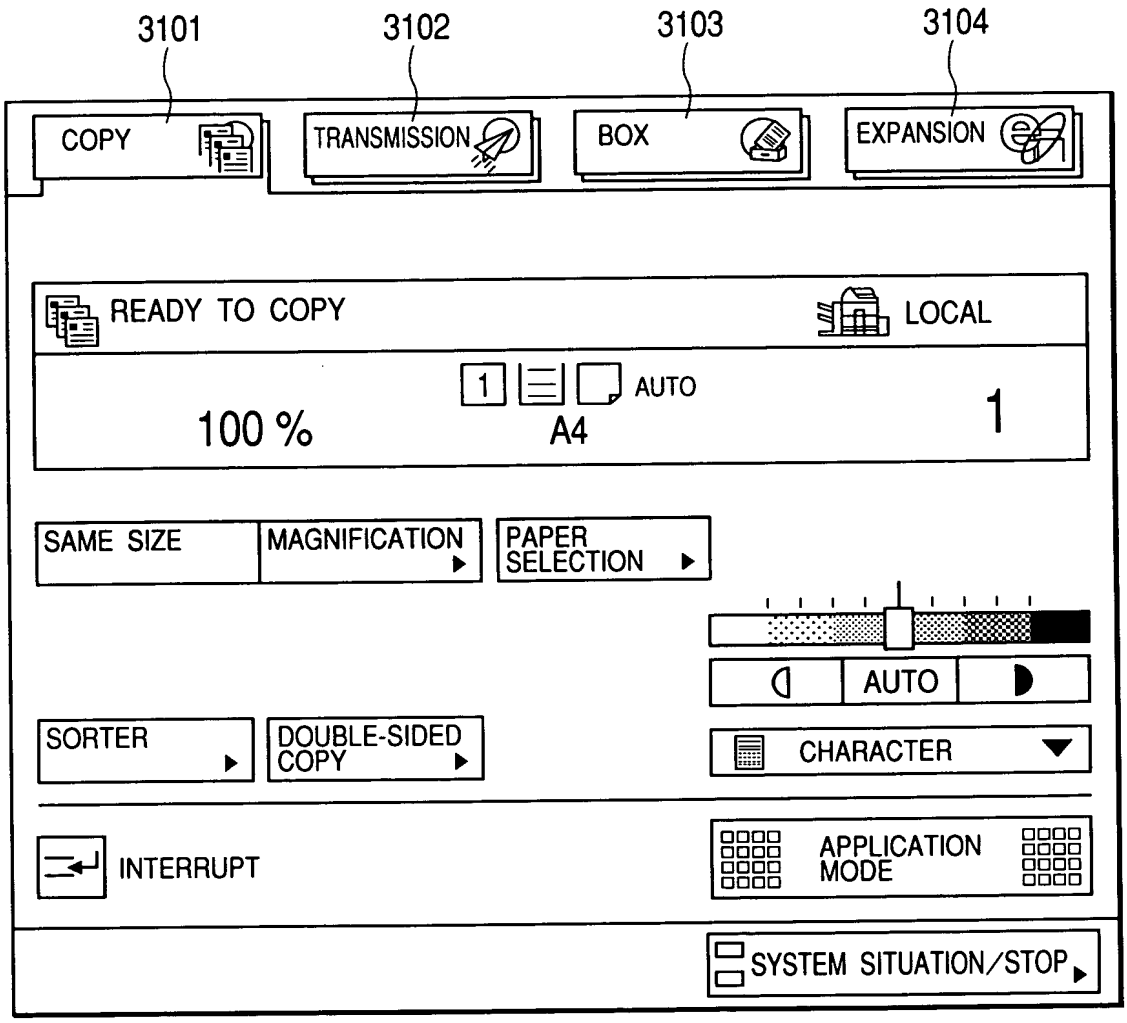
3101
3102
3103
3104
COPY
TRANSMISSION
BOX
EXPANSION
READY TO COPY
LOCAL
100 %
1
AUTO
A4
1
SAME SIZE
MAGNIFICATION
PAPER SELECTION
AUTO
SORTER
DOUBLE-SIDED COPY
CHARACTER
INTERRUPT
APPLICATION MODE
SYSTEM SITUATION/STOP

FIG. 13

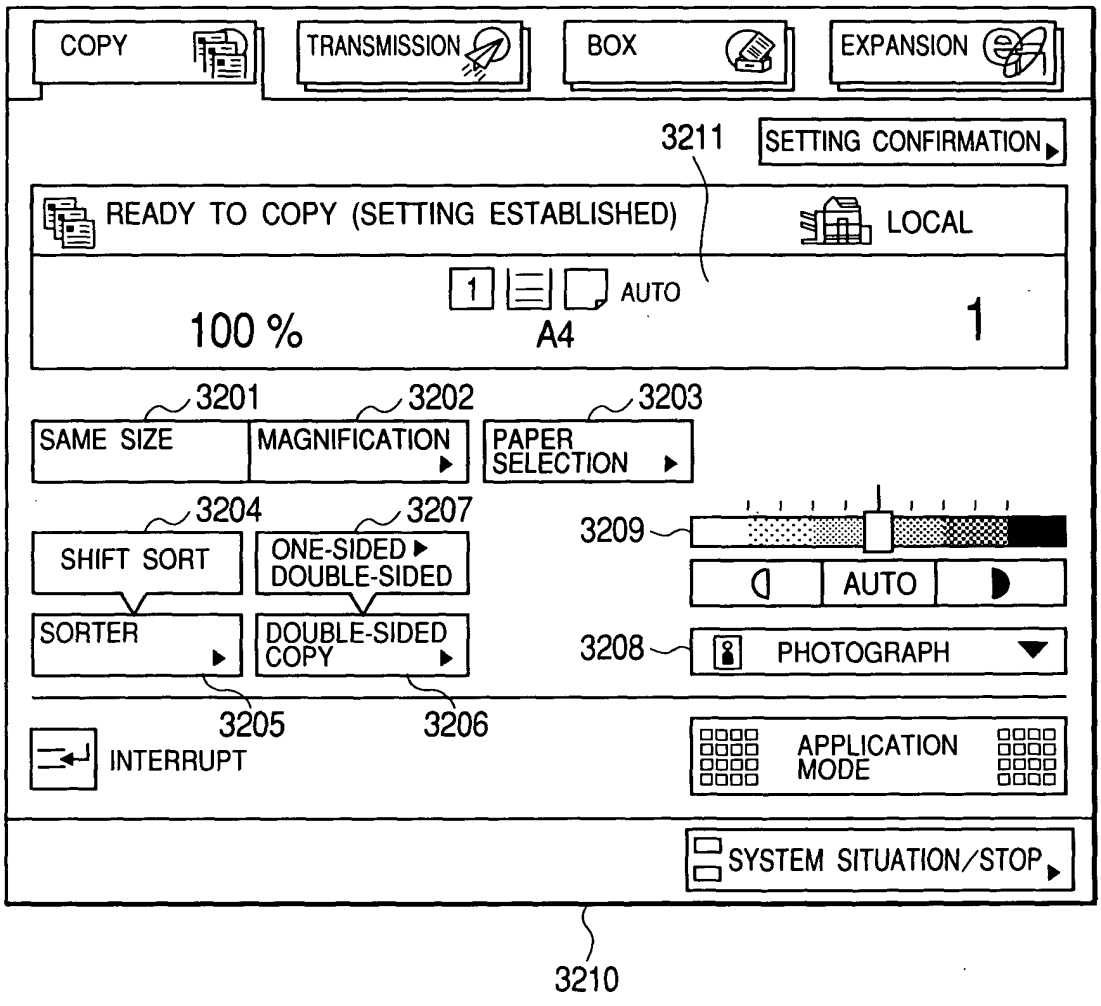
COPY
TRANSMISSION
BOX
EXPANSION
3211
SETTING CONFIRMATION
READY TO COPY (SETTING ESTABLISHED)
LOCAL
1
AUTO
100 %
A4
1
3201
3202
3203
SAME SIZE
MAGNIFICATION
PAPER SELECTION
3204
3207
SHIFT SORT
ONE-SIDED
DOUBLE-SIDED
3209
AUTO
SORTER
DOUBLE-SIDED COPY
3208
PHOTOGRAPH
3205
3206
INTERRUPT
APPLICATION MODE
SYSTEM SITUATION/STOP
3210

FIG. 14

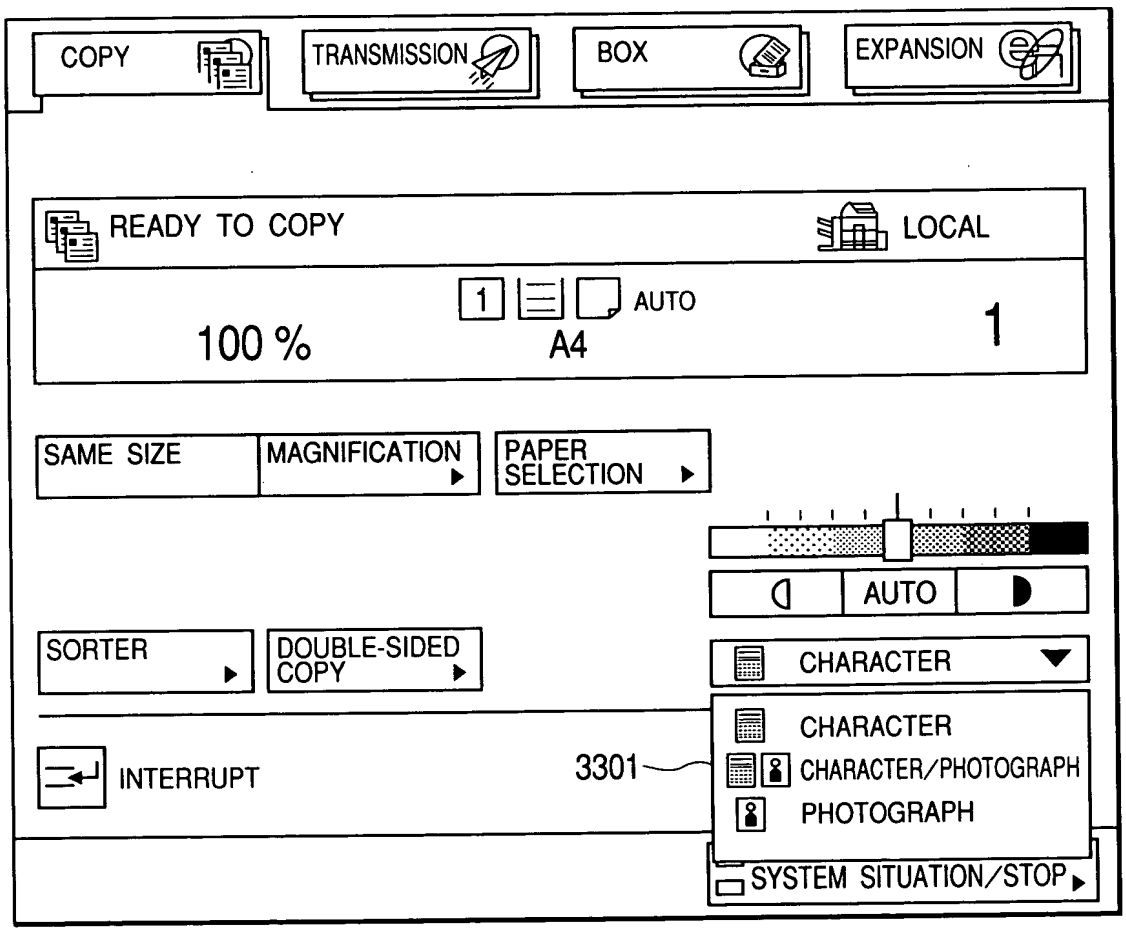
COPY
TRANSMISSION
BOX
EXPANSION
READY TO COPY
LOCAL
100 %
1
AUTO
A4
1
SAME SIZE
MAGNIFICATION
PAPER SELECTION
AUTO
SORTER
DOUBLE-SIDED COPY
CHARACTER
CHARACTER
CHARACTER/PHOTOGRAPH
PHOTOGRAPH
INTERRUPT
3301
SYSTEM SITUATION/STOP

FIG. 15

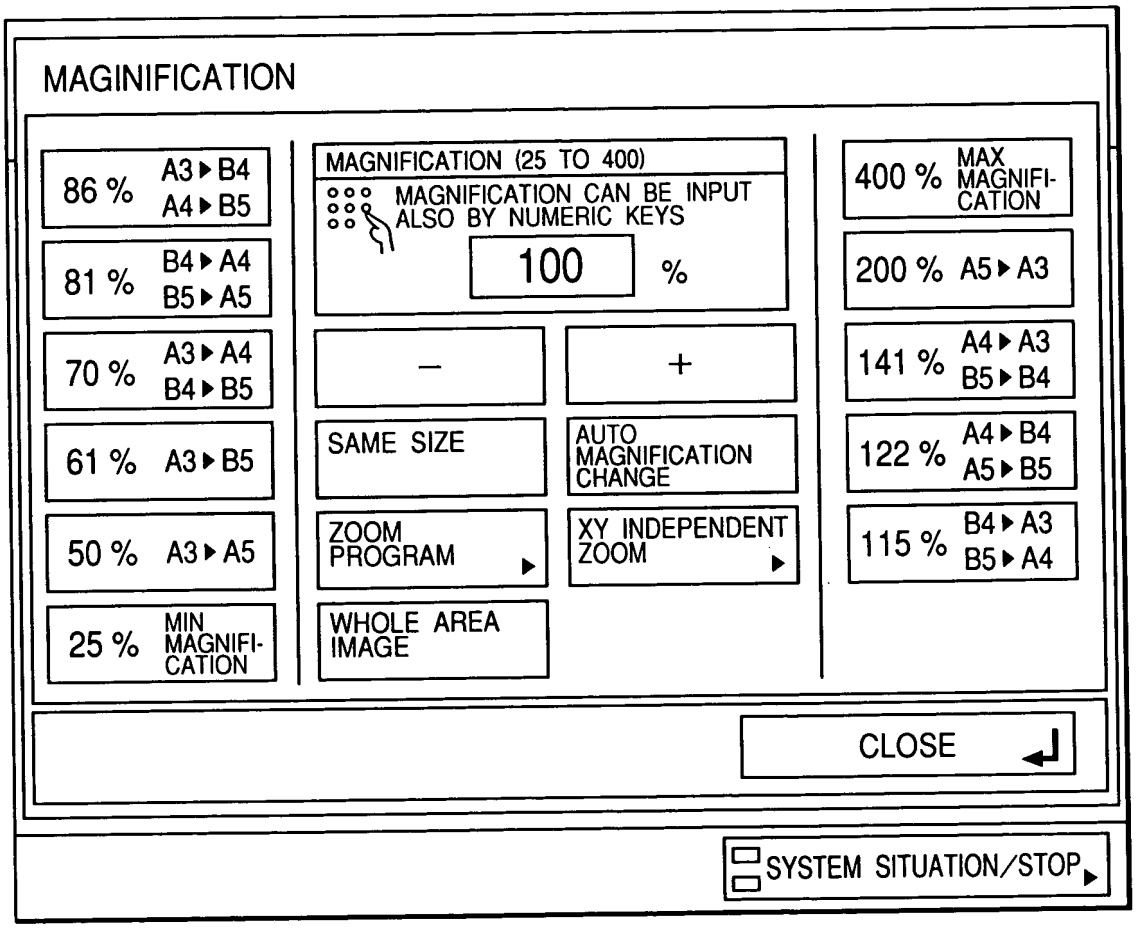
MAGINIFICATION
86 % A3▶B4 A4▶B5
81 % B4▶A4 B5▶A5
70 % A3▶A4 B4▶B5
61 % A3▶B5
50 % A3▶A5
25 % MIN MAGNIFI-CATION
MAGNIFICATION (25 TO 400)
MAGNIFICATION CAN BE INPUT ALSO BY NUMERIC KEYS
100 %
–
+
SAME SIZE
AUTO MAGNIFICATION CHANGE
ZOOM PROGRAM ▶
XY INDEPENDENT ZOOM ▶
WHOLE AREA IMAGE
400 % MAX MAGNIFI-CATION
200 % A5▶A3
141 % A4▶A3 B5▶B4
122 % A4▶B4 A5▶B5
115 % B4▶A3 B5▶A4
CLOSE
SYSTEM SITUATION/STOP ▶

FIG. 16

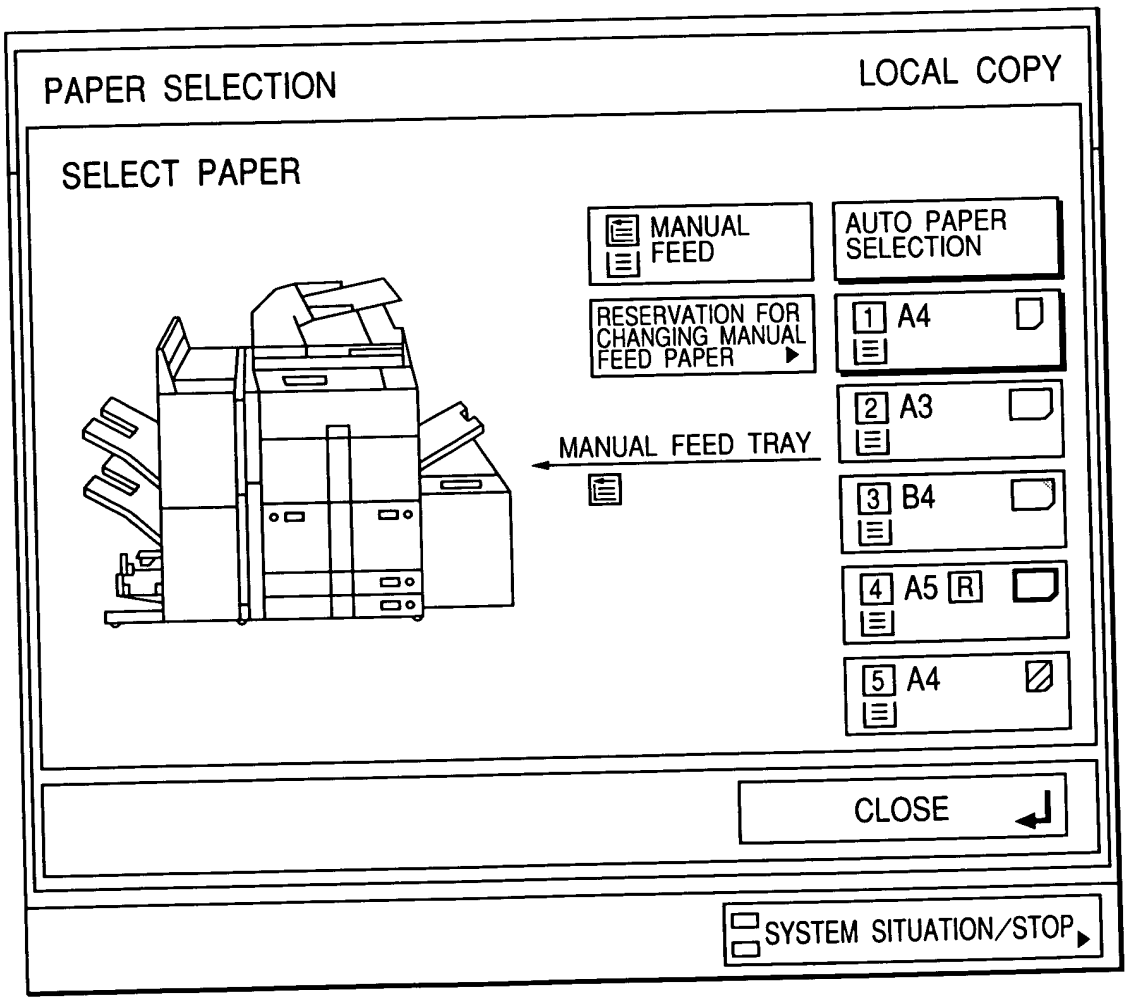
PAPER SELECTION
LOCAL COPY
SELECT PAPER
MANUAL FEED
AUTO PAPER SELECTION
RESERVATION FOR CHANGING MANUAL FEED PAPER
1 A4
2 A3
MANUAL FEED TRAY
3 B4
4 A5 R
5 A4
CLOSE
SYSTEM SITUATION/STOP

FIG. 17

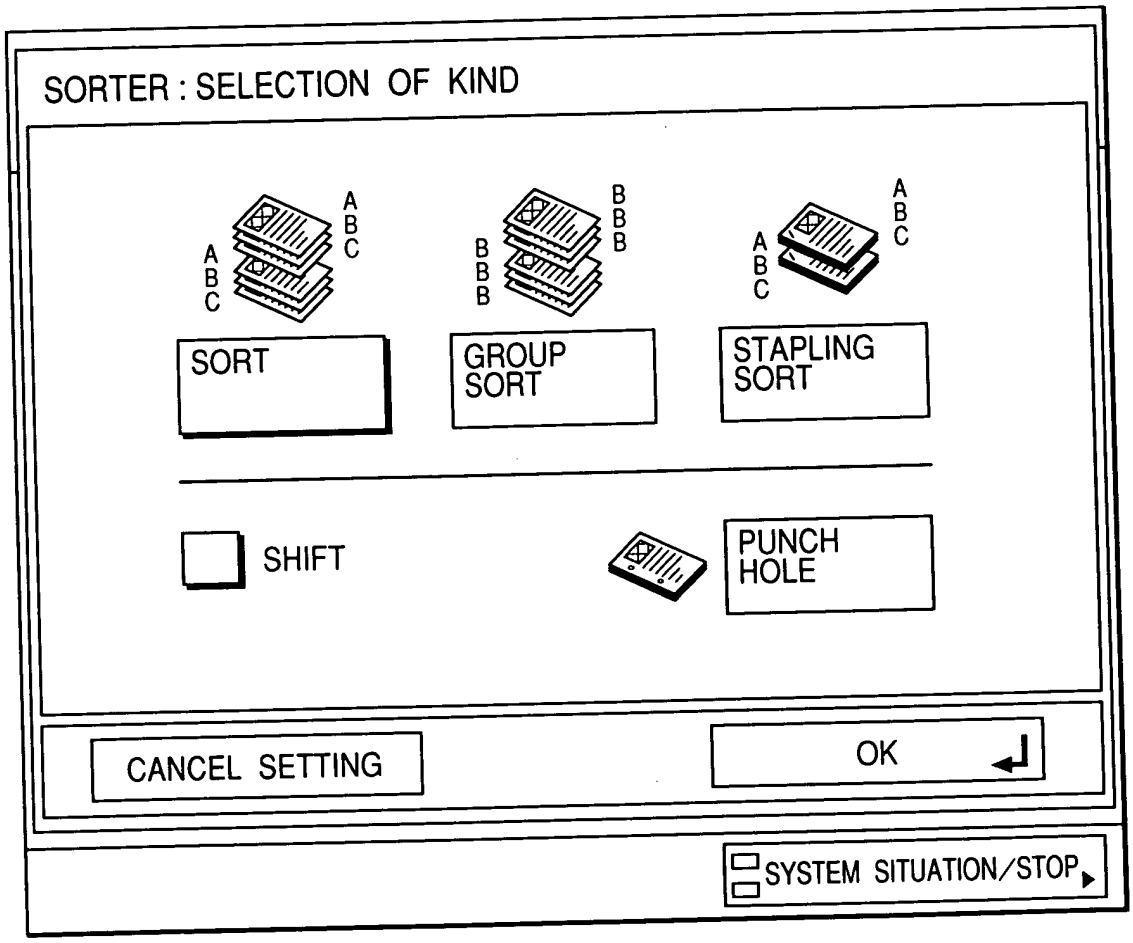
SORTER : SELECTION OF KIND
A B C
A B C
SORT
B B B
B B B
GROUP SORT
A B C
A B C
STAPLING SORT
SHIFT
PUNCH HOLE
CANCEL SETTING
OK
SYSTEM SITUATION/STOP

FIG. 18

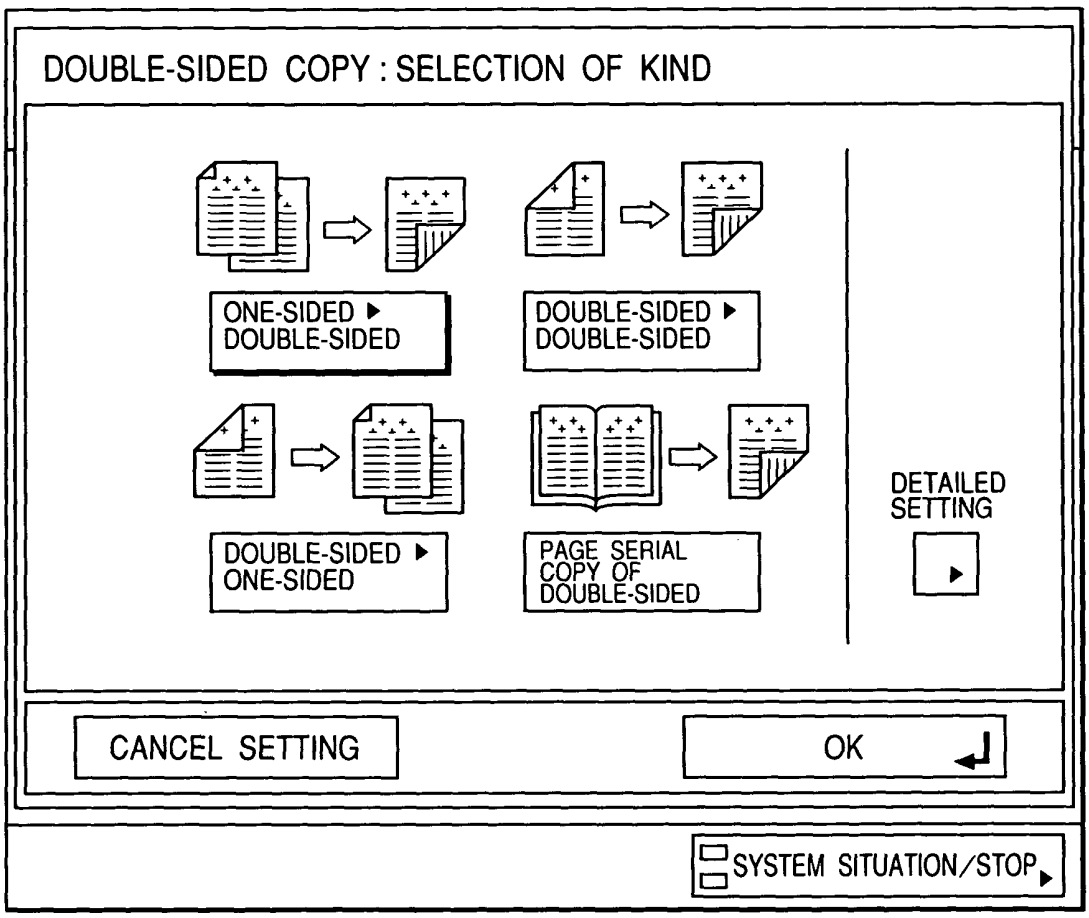
DOUBLE-SIDED COPY : SELECTION OF KIND
ONE-SIDED ▶ DOUBLE-SIDED
DOUBLE-SIDED ▶ DOUBLE-SIDED
DOUBLE-SIDED ▶ ONE-SIDED
PAGE SERIAL COPY OF DOUBLE-SIDED
DETAILED SETTING
CANCEL SETTING
OK
SYSTEM SITUATION/STOP

FIG. 19

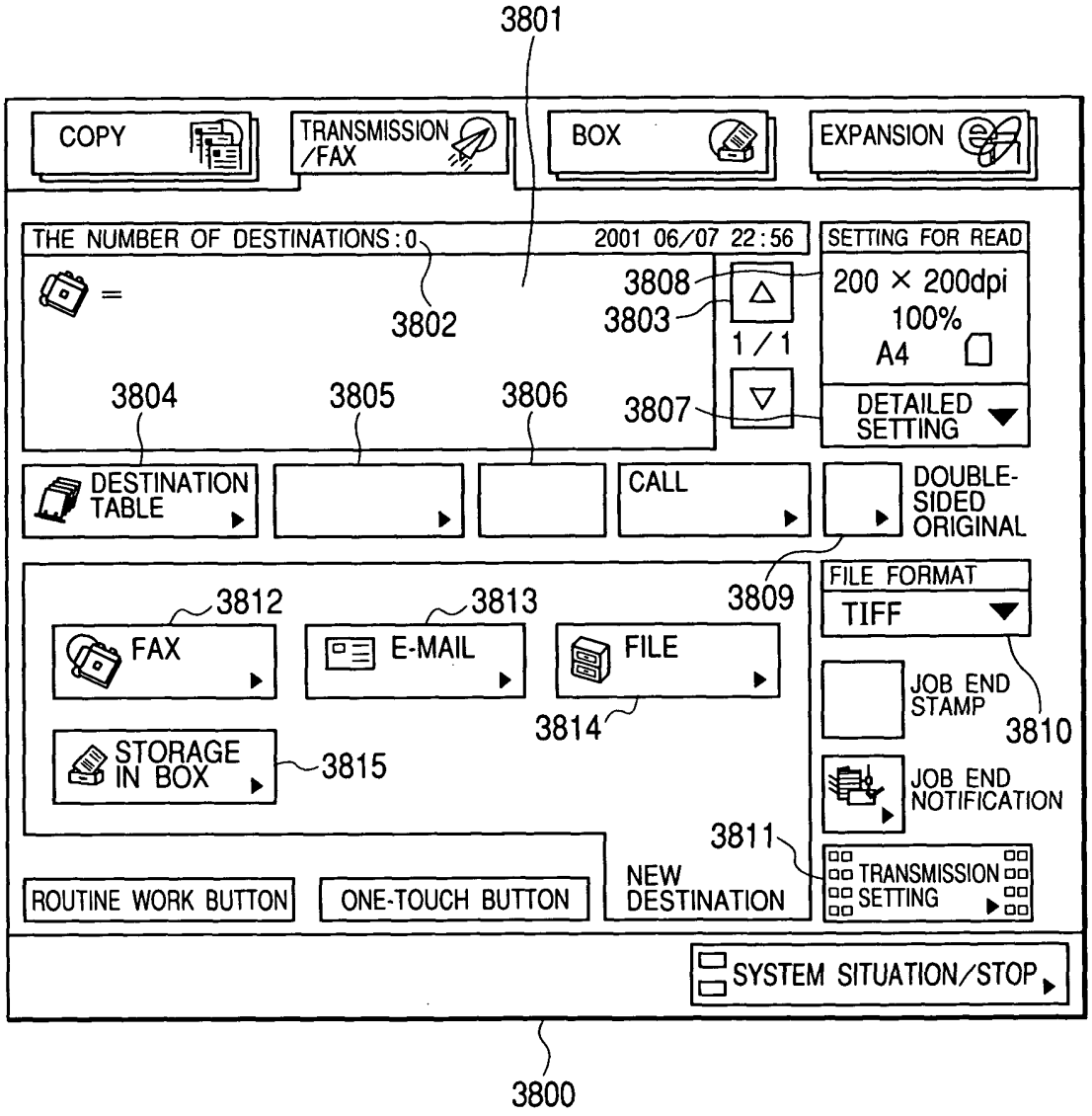
3801
COPY
TRANSMISSION /FAX
BOX
EXPANSION
THE NUMBER OF DESTINATIONS : 0
2001 06/07 22:56
SETTING FOR READ
3802
3808
3803
200 × 200dpi
100%
A4
1/1
3804
3805
3806
3807
DETAILED SETTING
DESTINATION TABLE
CALL
DOUBLE-SIDED ORIGINAL
3809
FILE FORMAT
TIFF
3812
3813
FAX
E-MAIL
FILE
JOB END STAMP
3810
3814
STORAGE IN BOX
3815
JOB END NOTIFICATION
3811
ROUTINE WORK BUTTON
ONE-TOUCH BUTTON
NEW DESTINATION
TRANSMISSION SETTING
SYSTEM SITUATION/STOP
3800

FIG. 20

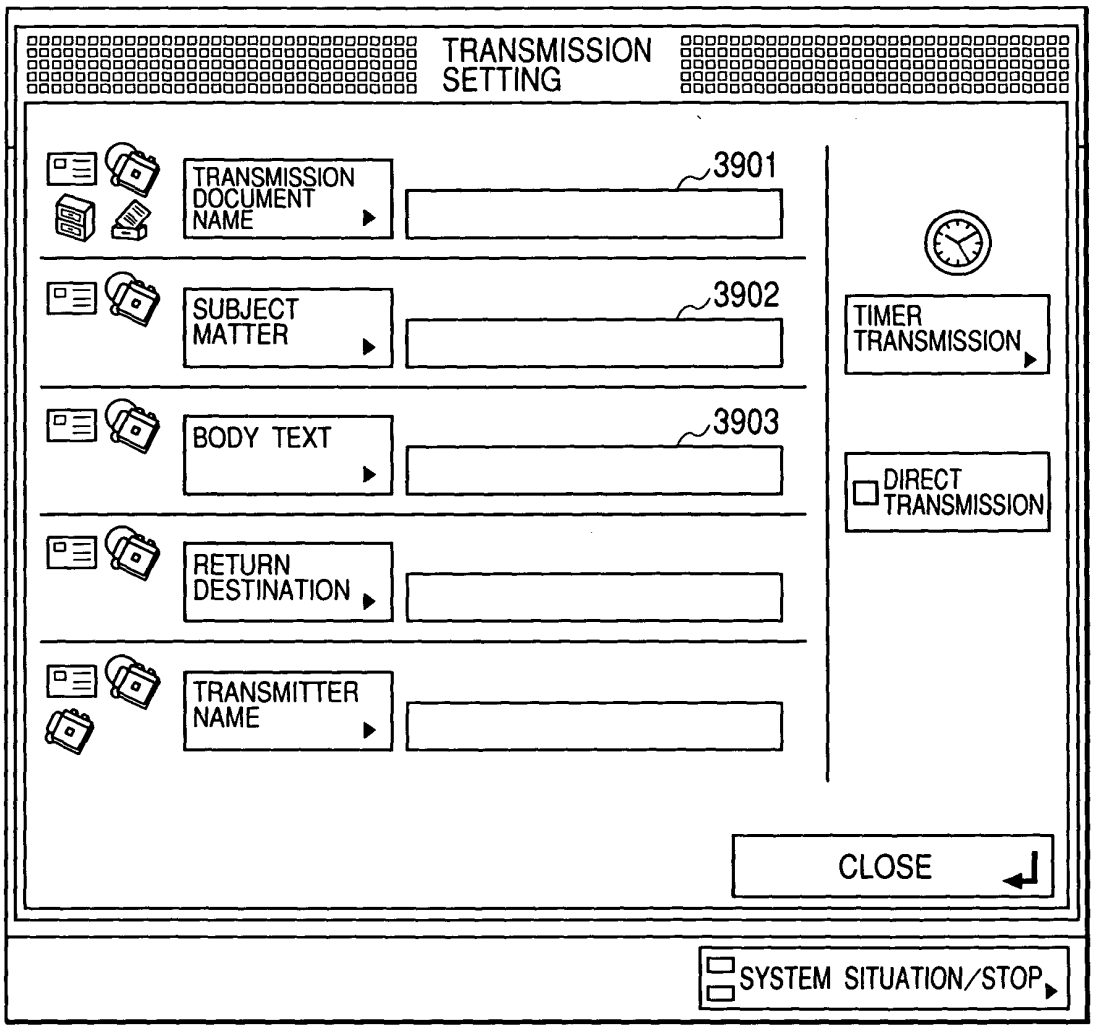
TRANSMISSION SETTING
TRANSMISSION DOCUMENT NAME
3901
SUBJECT MATTER
3902
BODY TEXT
3903
RETURN DESTINATION
TRANSMITTER NAME
TIMER TRANSMISSION
DIRECT TRANSMISSION
CLOSE
SYSTEM SITUATION/STOP

FIG. 21

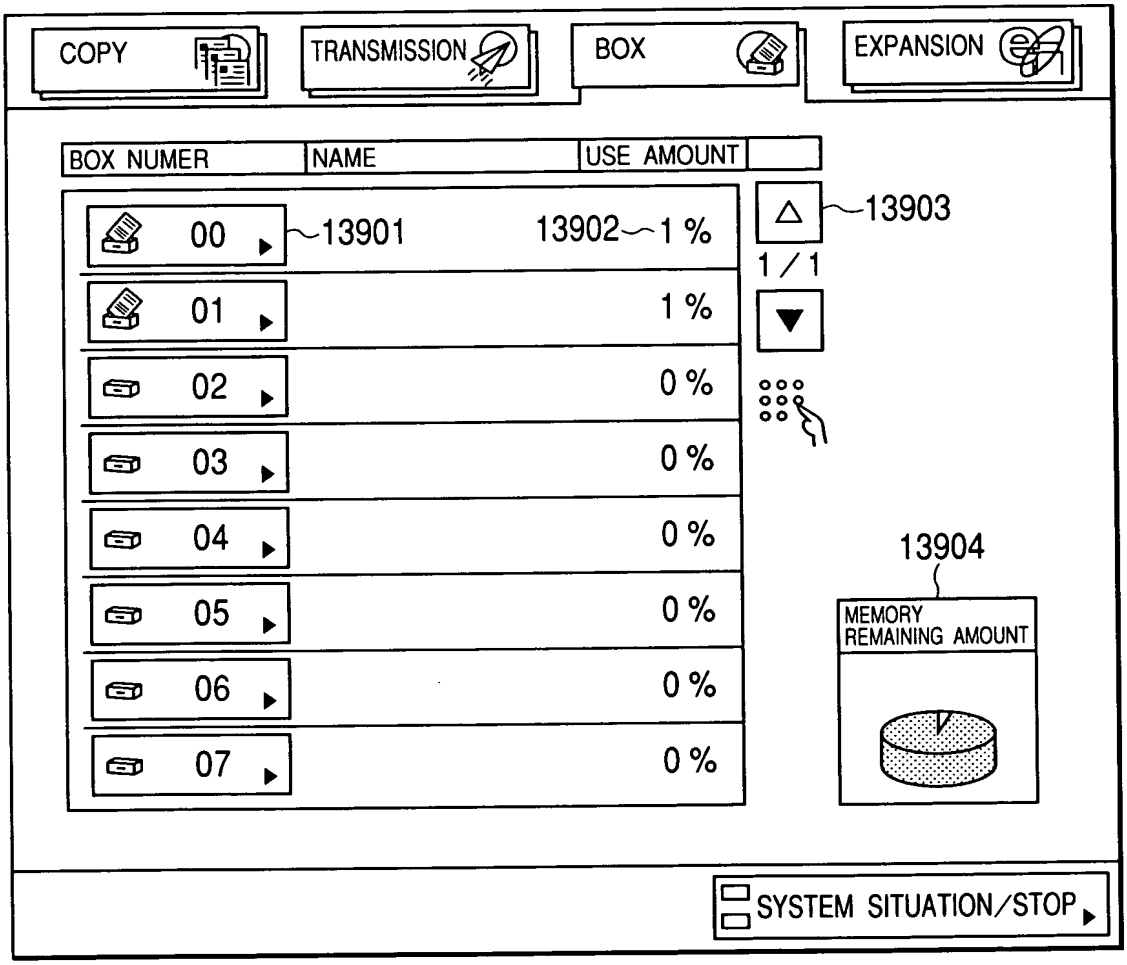
COPY
TRANSMISSION
BOX
EXPANSION
BOX NUMER
NAME
USE AMOUNT
00
01
02
03
04
05
06
07
13901
13902
1 %
1 %
0 %
0 %
0 %
0 %
0 %
13903
1 / 1
13904
MEMORY REMAINING AMOUNT
SYSTEM SITUATION/STOP

FIG. 22

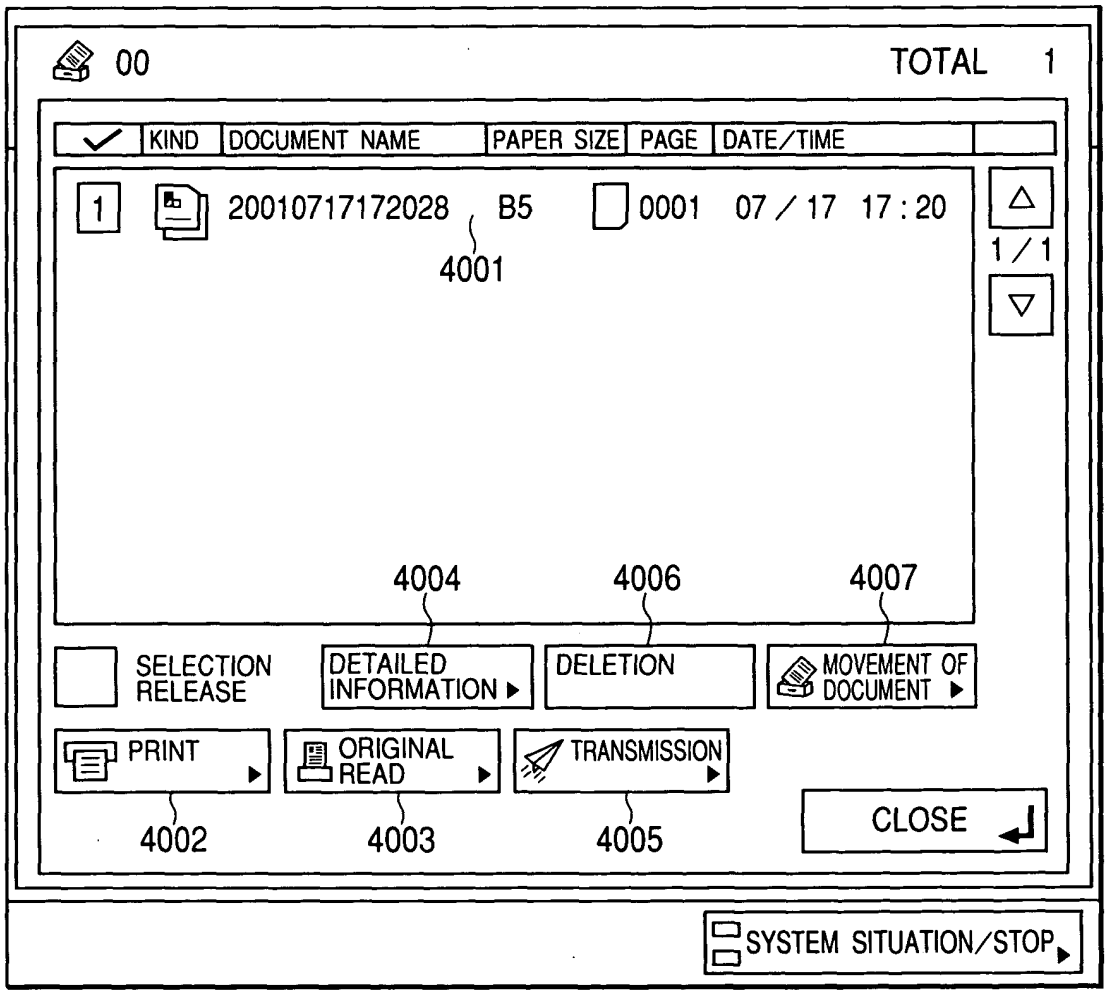
00
TOTAL 1
KIND
DOCUMENT NAME
PAPER SIZE
PAGE
DATE/TIME
1
20010717172028
B5
0001
07 / 17 17 : 20
4001
1 / 1
4004
4006
4007
SELECTION RELEASE
DETAILED INFORMATION
DELETION
MOVEMENT OF DOCUMENT
PRINT
ORIGINAL READ
TRANSMISSION
CLOSE
4002
4003
4005
SYSTEM SITUATION/STOP

FIG. 23

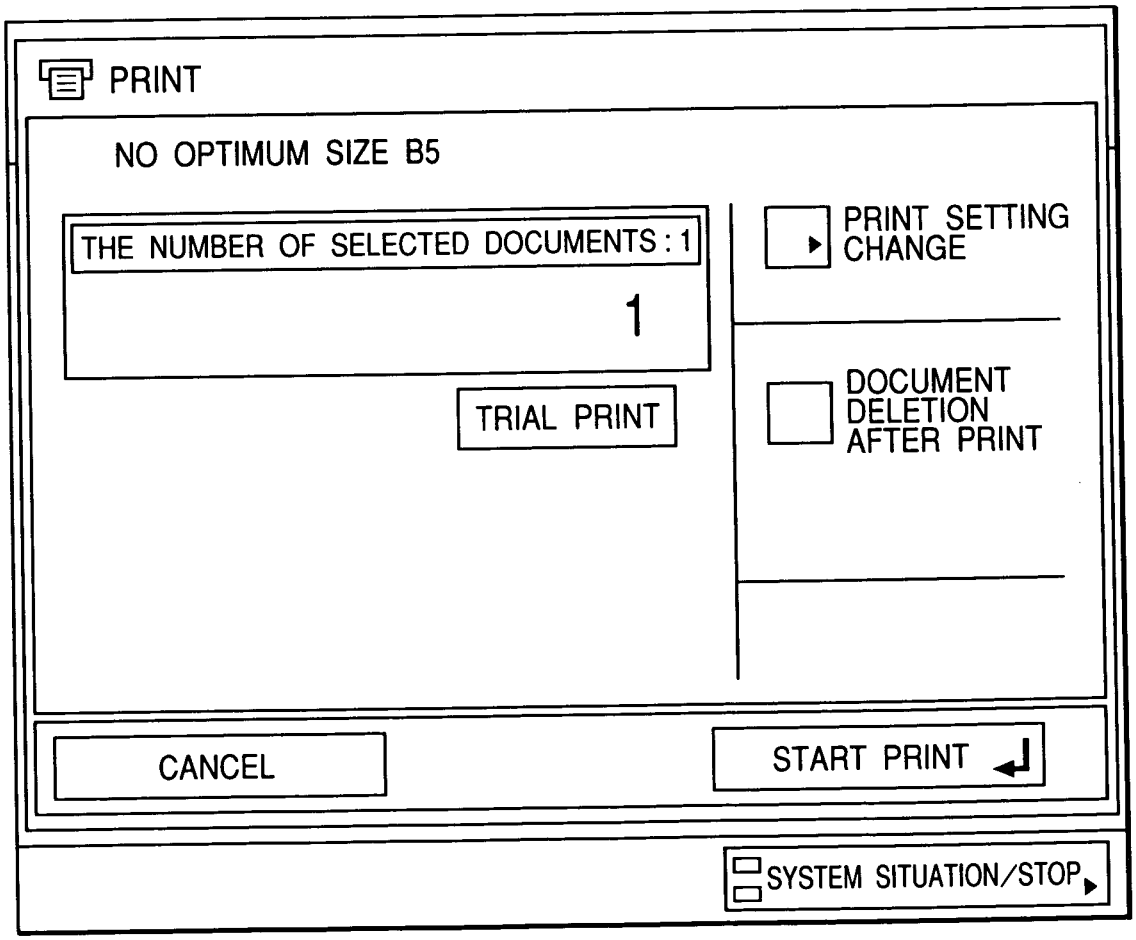
PRINT
NO OPTIMUM SIZE B5
THE NUMBER OF SELECTED DOCUMENTS : 1
1
TRIAL PRINT
PRINT SETTING CHANGE
DOCUMENT DELETION AFTER PRINT
CANCEL
START PRINT
SYSTEM SITUATION/STOP

FIG. 24

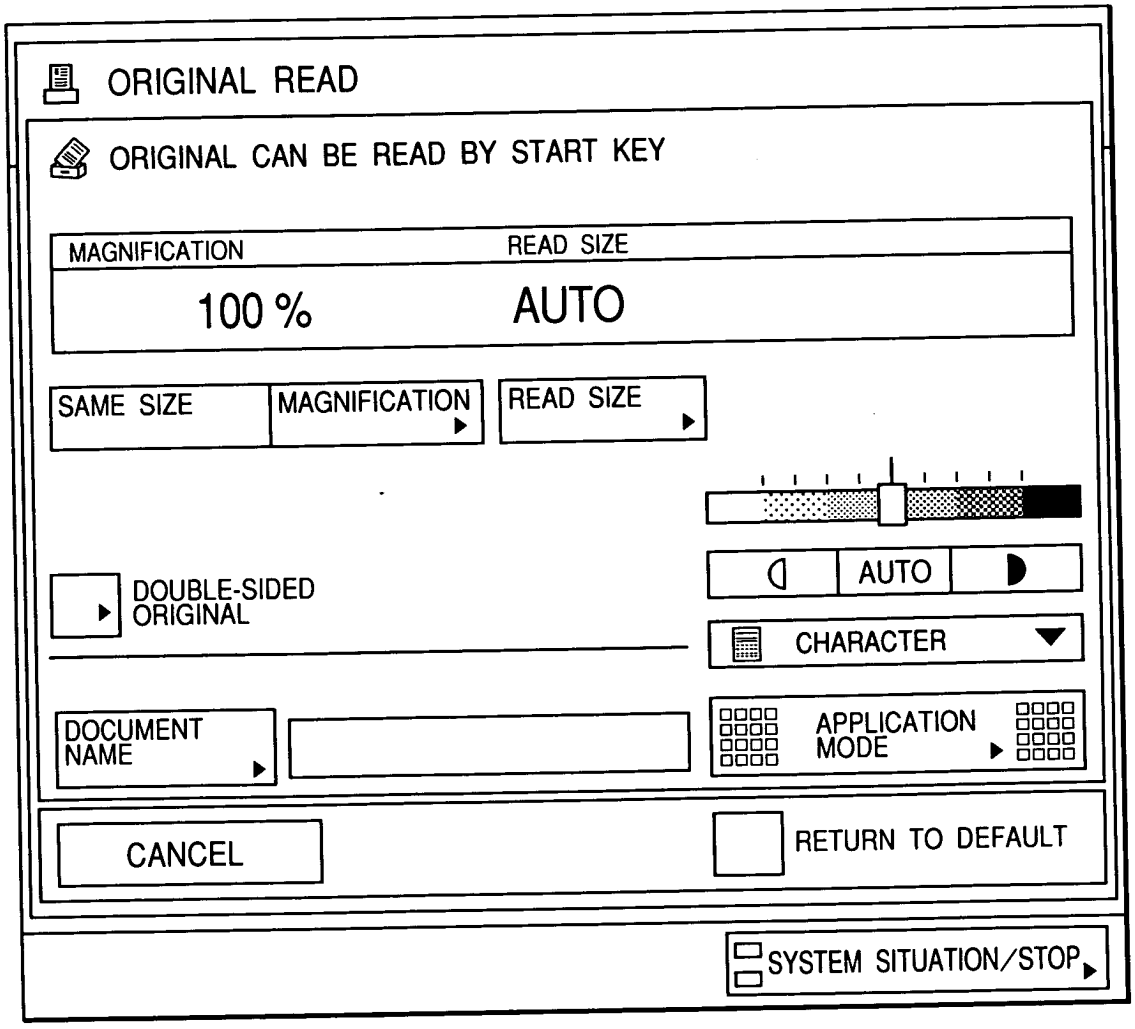
ORIGINAL READ
ORIGINAL CAN BE READ BY START KEY
MAGNIFICATION
READ SIZE
100 %
AUTO
SAME SIZE
MAGNIFICATION
READ SIZE
AUTO
DOUBLE-SIDED ORIGINAL
CHARACTER
DOCUMENT NAME
APPLICATION MODE
CANCEL
RETURN TO DEFAULT
SYSTEM SITUATION/STOP

FIG. 25

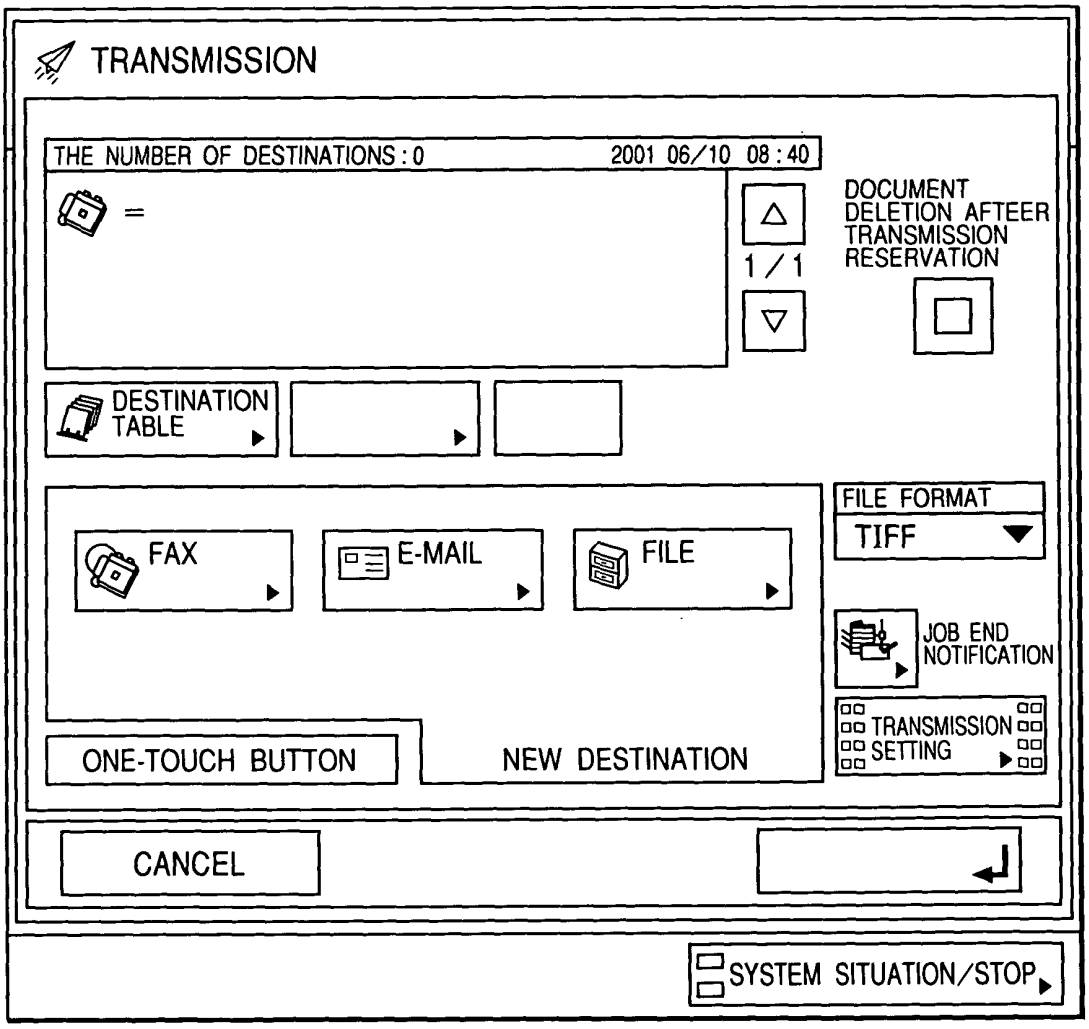
TRANSMISSION
THE NUMBER OF DESTINATIONS : 0
2001 06/10 08 : 40
=
1 / 1
DOCUMENT DELETION AFTEER TRANSMISSION RESERVATION
DESTINATION TABLE
FAX
E-MAIL
FILE
FILE FORMAT
TIFF
JOB END NOTIFICATION
TRANSMISSION SETTING
ONE-TOUCH BUTTON
NEW DESTINATION
CANCEL
SYSTEM SITUATION/STOP

FIG. 26

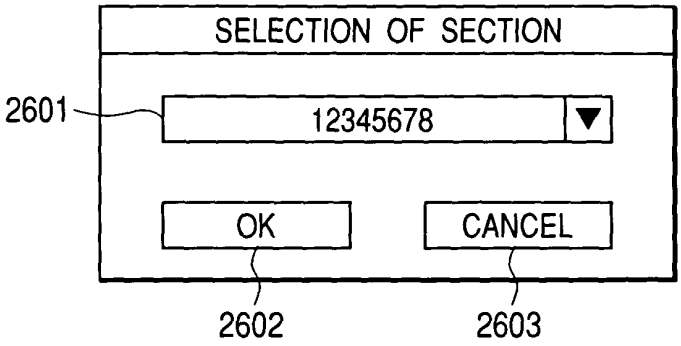

FIG. 27

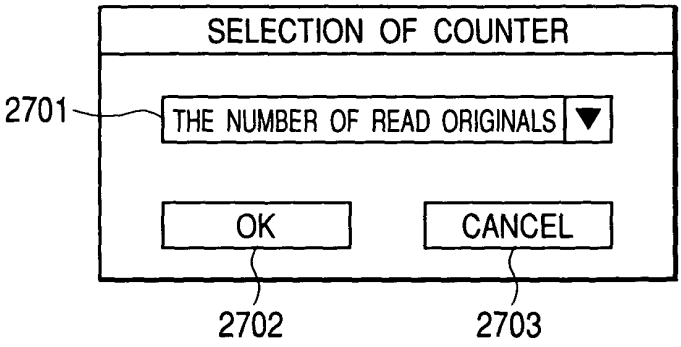

FIG. 28

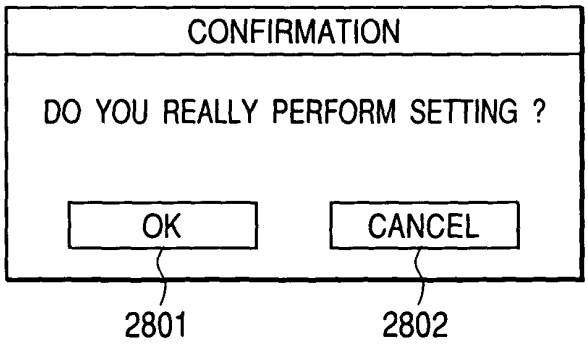

FIG. 29

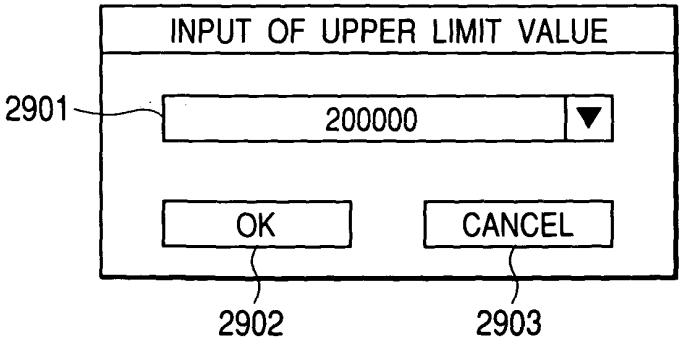

FIG. 30

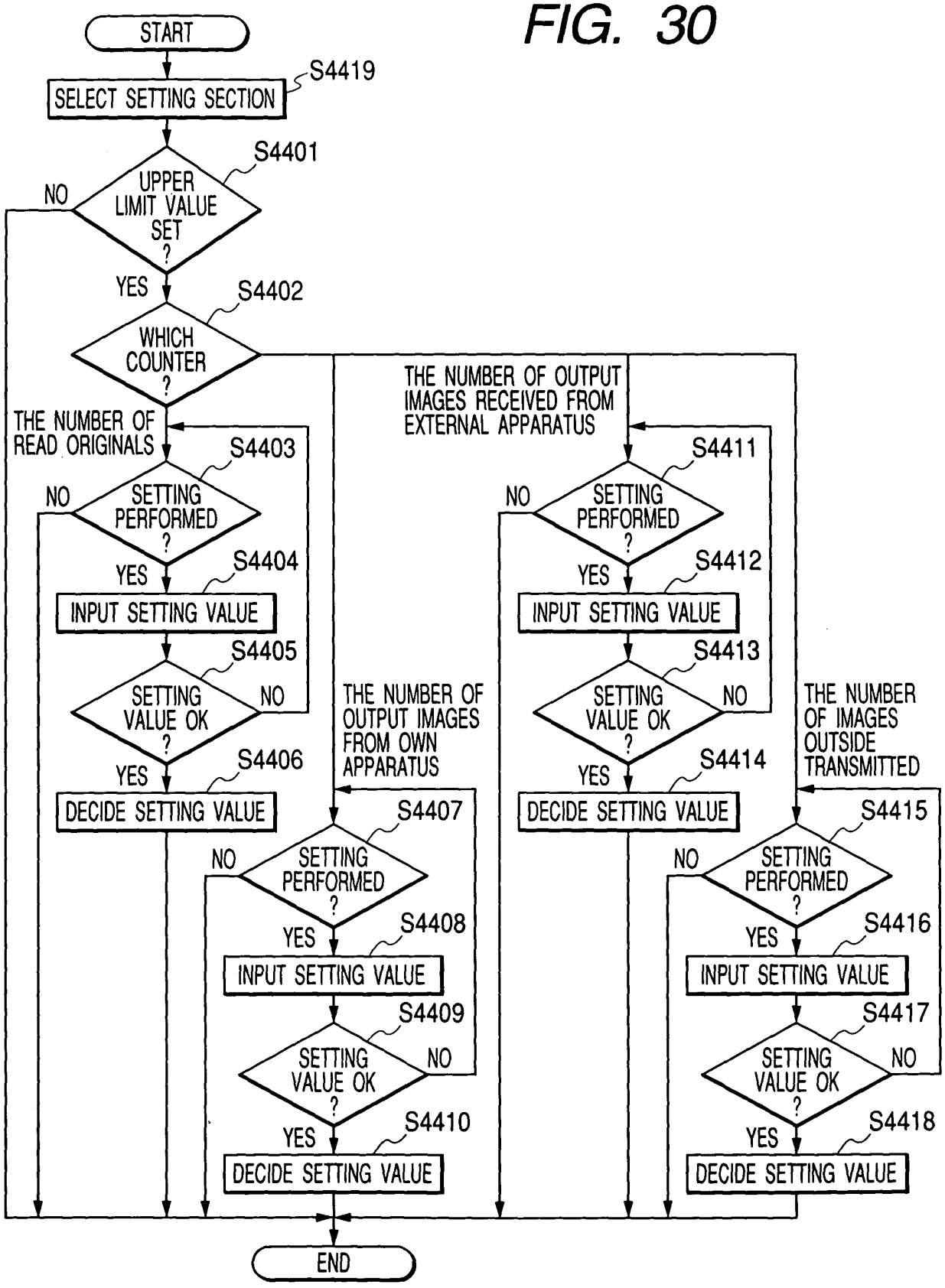
START
S4419
SELECT SETTING SECTION
S4401
UPPER LIMIT VALUE SET ?
NO
YES
S4402
WHICH COUNTER ?
THE NUMBER OF READ ORIGINALS
S4403
SETTING PERFORMED ?
NO
YES
S4404
INPUT SETTING VALUE
S4405
SETTING VALUE OK ?
NO
YES
S4406
DECIDE SETTING VALUE
THE NUMBER OF OUTPUT IMAGES FROM OWN APPARATUS
S4407
SETTING PERFORMED ?
NO
YES
S4408
INPUT SETTING VALUE
S4409
SETTING VALUE OK ?
NO
YES
S4410
DECIDE SETTING VALUE
THE NUMBER OF OUTPUT IMAGES RECEIVED FROM EXTERNAL APPARATUS
S4411
SETTING PERFORMED ?
NO
YES
S4412
INPUT SETTING VALUE
S4413
SETTING VALUE OK ?
NO
YES
S4414
DECIDE SETTING VALUE
THE NUMBER OF IMAGES OUTSIDE TRANSMITTED
S4415
SETTING PERFORMED ?
NO
YES
S4416
INPUT SETTING VALUE
S4417
SETTING VALUE OK ?
NO
YES
S4418
DECIDE SETTING VALUE
END

FIG. 31

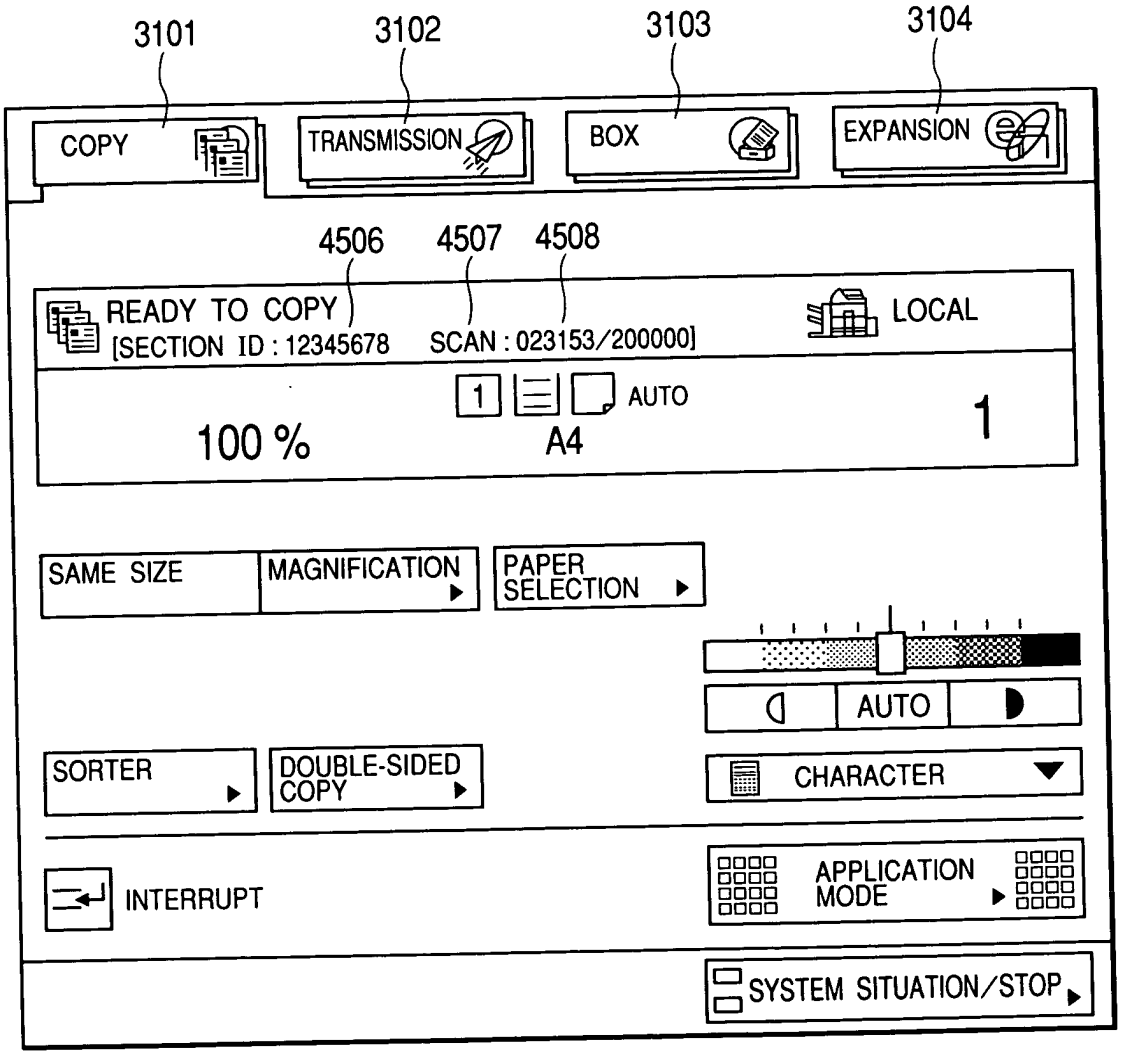
3101
3102
3103
3104
COPY
TRANSMISSION
BOX
EXPANSION
4506
4507
4508
READY TO COPY
[SECTION ID : 12345678
SCAN : 023153/200000]
LOCAL
1
AUTO
100 %
A4
1
SAME SIZE
MAGNIFICATION
PAPER SELECTION
AUTO
SORTER
DOUBLE-SIDED COPY
CHARACTER
INTERRUPT
APPLICATION MODE
SYSTEM SITUATION/STOP

FIG. 32

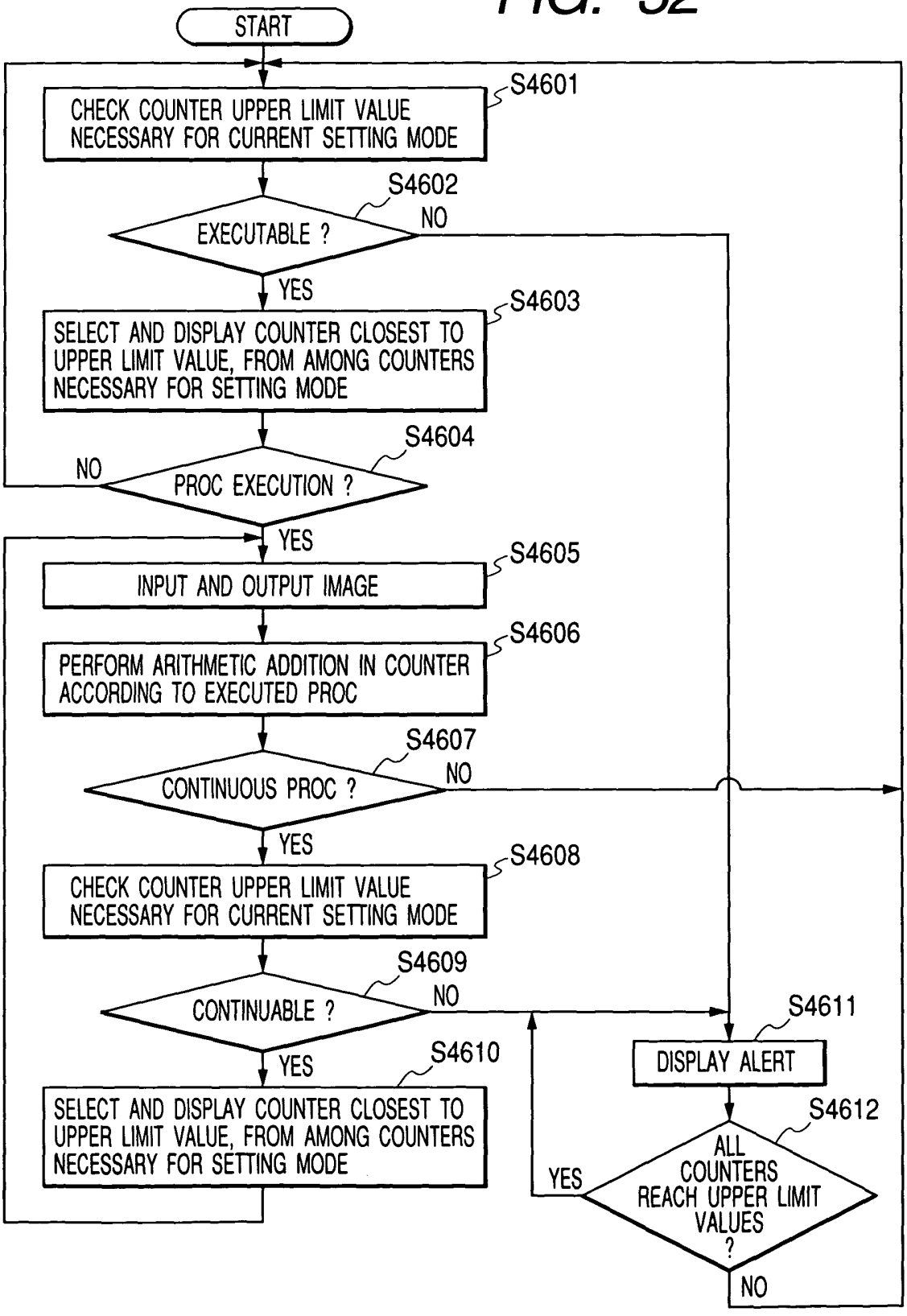
START
CHECK COUNTER UPPER LIMIT VALUE NECESSARY FOR CURRENT SETTING MODE
S4601
EXECUTABLE ?
S4602
NO
YES
SELECT AND DISPLAY COUNTER CLOSEST TO UPPER LIMIT VALUE, FROM AMONG COUNTERS NECESSARY FOR SETTING MODE
S4603
PROC EXECUTION ?
S4604
NO
YES
INPUT AND OUTPUT IMAGE
S4605
PERFORM ARITHMETIC ADDITION IN COUNTER ACCORDING TO EXECUTED PROC
S4606
CONTINUOUS PROC ?
S4607
NO
YES
CHECK COUNTER UPPER LIMIT VALUE NECESSARY FOR CURRENT SETTING MODE
S4608
CONTINUABLE ?
S4609
NO
YES
SELECT AND DISPLAY COUNTER CLOSEST TO UPPER LIMIT VALUE, FROM AMONG COUNTERS NECESSARY FOR SETTING MODE
S4610
DISPLAY ALERT
S4611
ALL COUNTERS REACH UPPER LIMIT VALUES ?
S4612
YES
NO

FIG. 33

READ ORIGINAL NUMBER COUNTER	OWN APPARATUS IMAGE OUTPUT NUMBER COUNTER	OUTSIDE TRANSMITTED IMAGE NUMBER COUNTER	EXTERNALLY RECEIVED IMAGE OUTPUT NUMBER COUNTER	EXECUTABLE PROC
○	○			COPY
○				BOX (STORAGE)
	○			BOX (OUTPUT)
○		○		PRINT (TRANSMISSION)
			○	PRINT (RECEPTION)
○		○		TRANSMISSION

FIG. 34

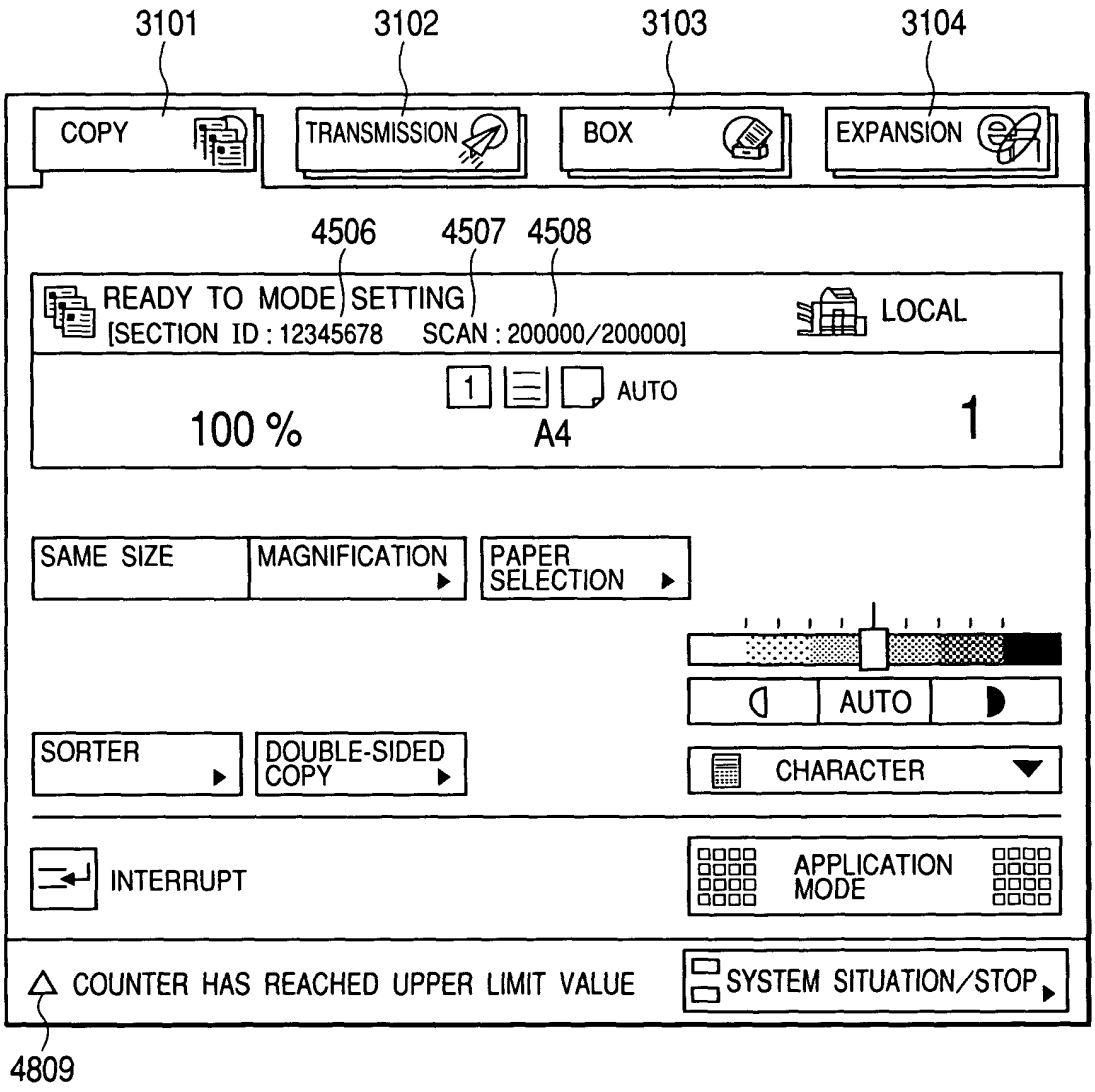
3101
3102
3103
3104
COPY
TRANSMISSION
BOX
EXPANSION
4506
4507
4508
READY TO MODE SETTING
[SECTION ID : 12345678 SCAN : 200000/200000]
LOCAL
1
AUTO
100 %
A4
1
SAME SIZE
MAGNIFICATION
PAPER SELECTION
AUTO
SORTER
DOUBLE-SIDED COPY
CHARACTER
INTERRUPT
APPLICATION MODE
COUNTER HAS REACHED UPPER LIMIT VALUE
SYSTEM SITUATION/STOP
4809

FIG. 35

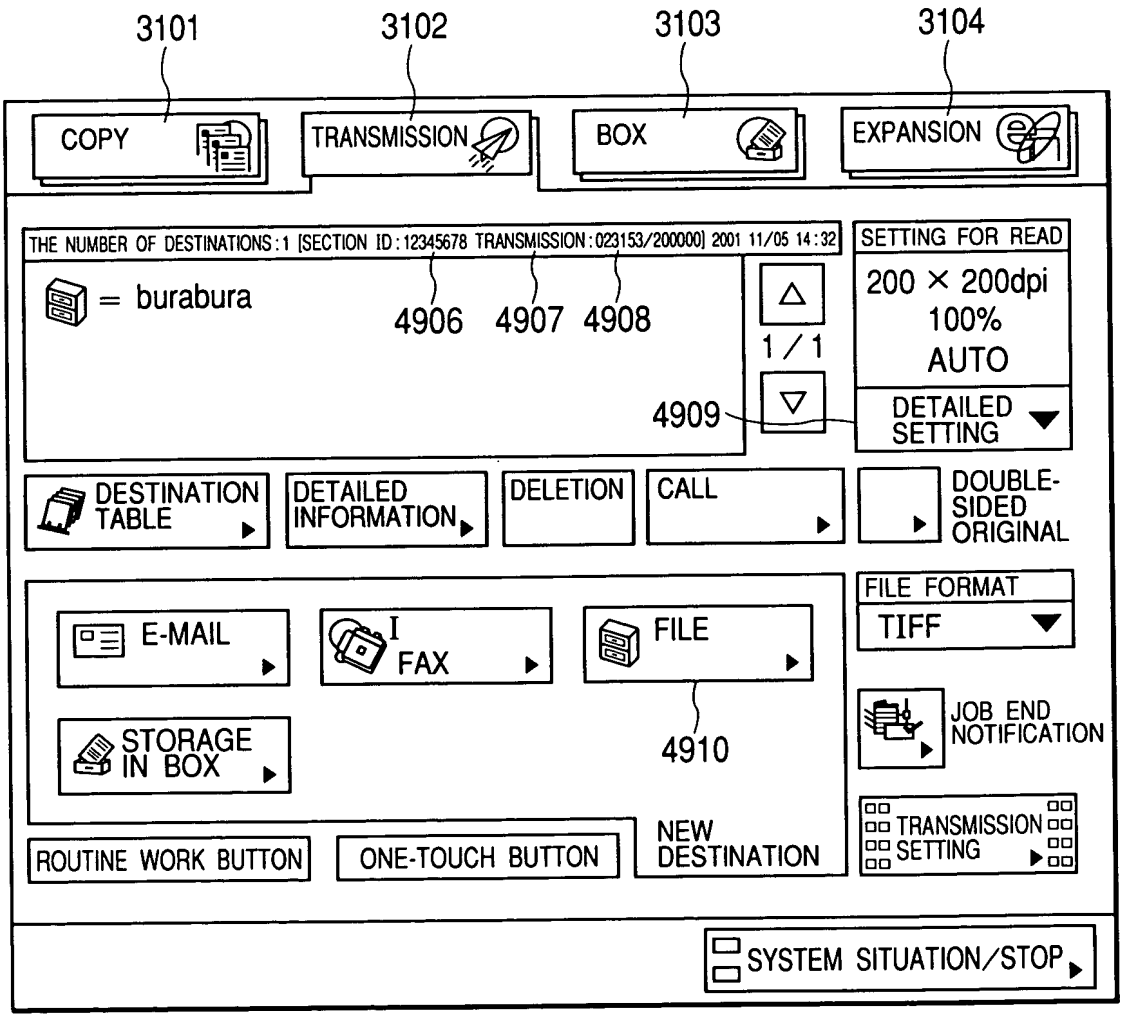
3101
3102
3103
3104
COPY
TRANSMISSION
BOX
EXPANSION
THE NUMBER OF DESTINATIONS : 1 [SECTION ID : 12345678 TRANSMISSION : 023153/200000] 2001 11/05 14 : 32
= burabura
4906
4907
4908
1 / 1
4909
SETTING FOR READ
200 × 200dpi
100%
AUTO
DETAILED SETTING
DESTINATION TABLE
DETAILED INFORMATION
DELETION
CALL
DOUBLE-SIDED ORIGINAL
E-MAIL
I FAX
FILE
4910
FILE FORMAT
TIFF
STORAGE IN BOX
JOB END NOTIFICATION
ROUTINE WORK BUTTON
ONE-TOUCH BUTTON
NEW DESTINATION
TRANSMISSION SETTING
SYSTEM SITUATION/STOP

FIG. 36

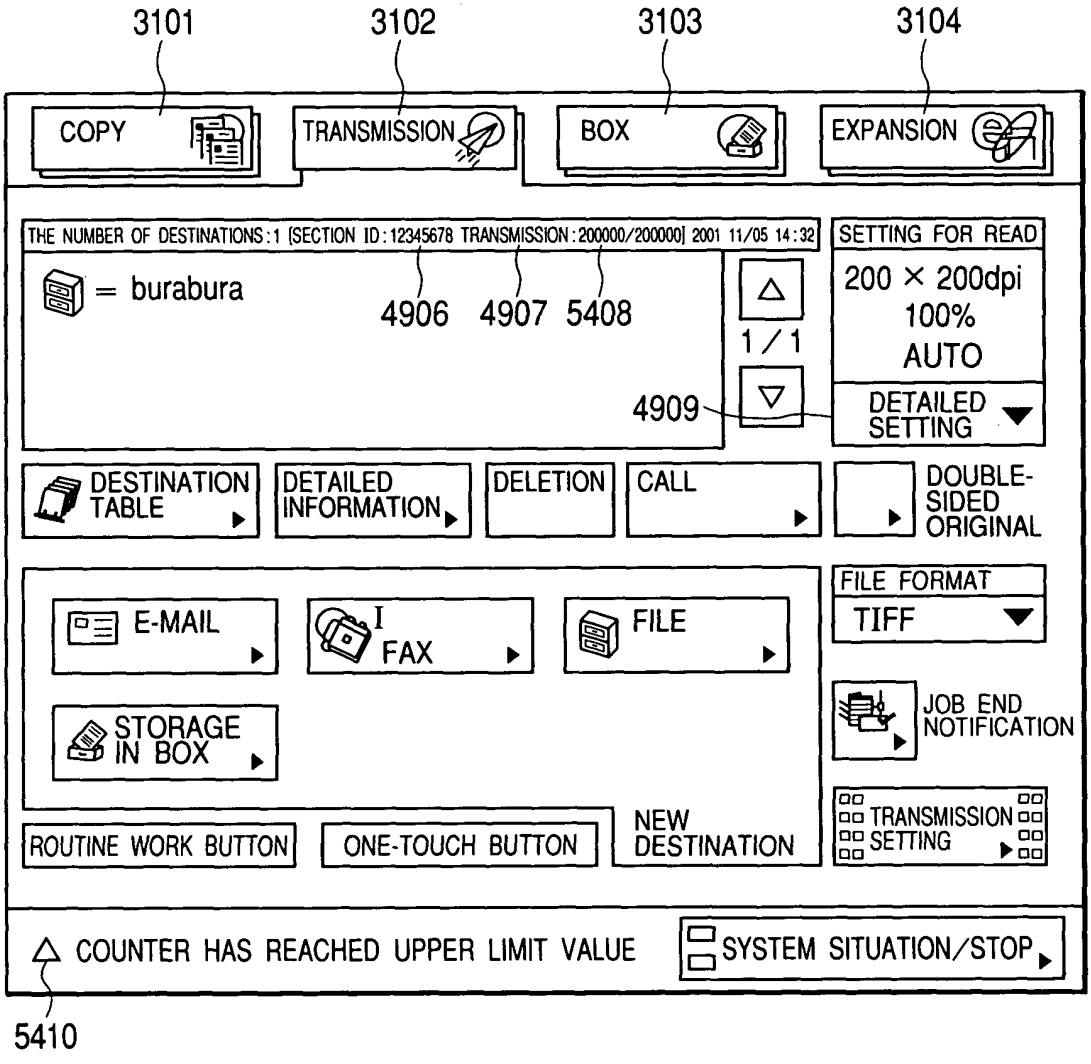
3101
3102
3103
3104
COPY
TRANSMISSION
BOX
EXPANSION
THE NUMBER OF DESTINATIONS:1 [SECTION ID:12345678 TRANSMISSION:200000/200000] 2001 11/05 14:32
= burabura
4906
4907
5408
1/1
4909
SETTING FOR READ
200 × 200dpi
100%
AUTO
DETAILED SETTING
DESTINATION TABLE
DETAILED INFORMATION
DELETION
CALL
DOUBLE-SIDED ORIGINAL
E-MAIL
I FAX
FILE
FILE FORMAT
TIFF
STORAGE IN BOX
JOB END NOTIFICATION
ROUTINE WORK BUTTON
ONE-TOUCH BUTTON
NEW DESTINATION
TRANSMISSION SETTING
COUNTER HAS REACHED UPPER LIMIT VALUE
SYSTEM SITUATION/STOP
5410

FIG. 37

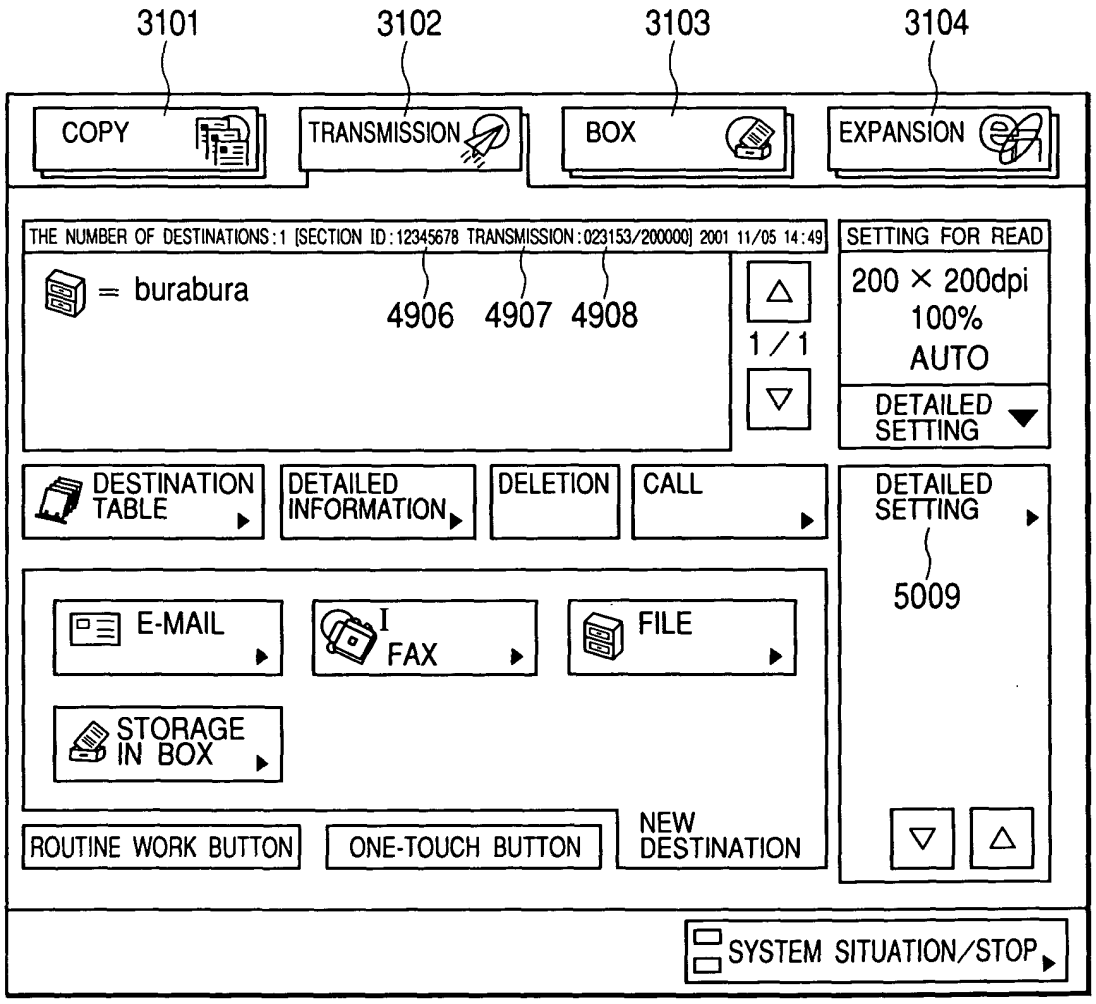
3101
3102
3103
3104
COPY
TRANSMISSION
BOX
EXPANSION
THE NUMBER OF DESTINATIONS:1 [SECTION ID:12345678 TRANSMISSION:023153/200000] 2001 11/05 14:49
SETTING FOR READ
= burabura
4906
4907
4908
1/1
200 × 200dpi
100%
AUTO
DETAILED SETTING
DESTINATION TABLE
DETAILED INFORMATION
DELETION
CALL
DETAILED SETTING
5009
E-MAIL
I FAX
FILE
STORAGE IN BOX
ROUTINE WORK BUTTON
ONE-TOUCH BUTTON
NEW DESTINATION
SYSTEM SITUATION/STOP

FIG. 38

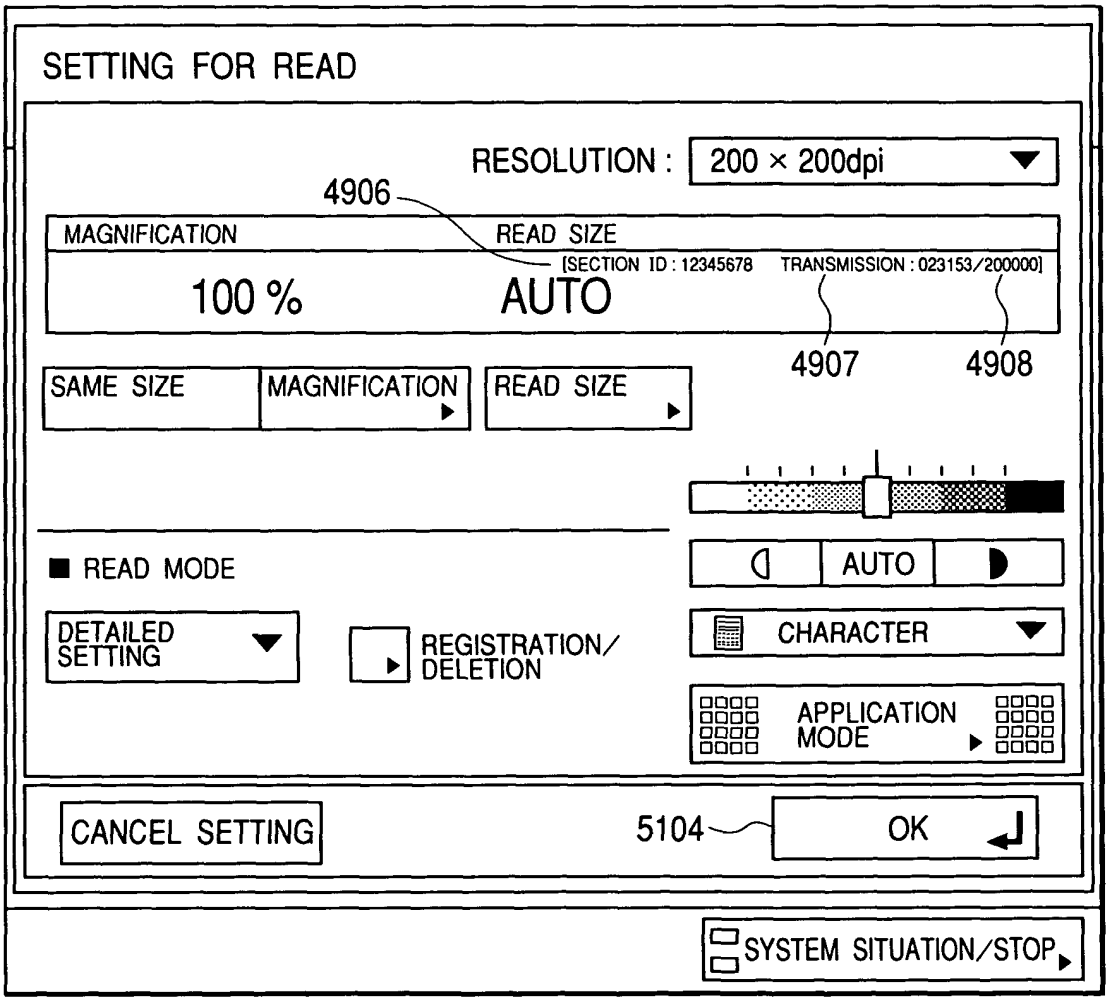
SETTING FOR READ
RESOLUTION :
200 × 200dpi
4906
MAGNIFICATION
READ SIZE
[SECTION ID : 12345678
TRANSMISSION : 023153/200000]
100 %
AUTO
4907
4908
SAME SIZE
MAGNIFICATION
READ SIZE
AUTO
READ MODE
DETAILED SETTING
REGISTRATION/ DELETION
CHARACTER
APPLICATION MODE
CANCEL SETTING
5104
OK
SYSTEM SITUATION/STOP

FIG. 39

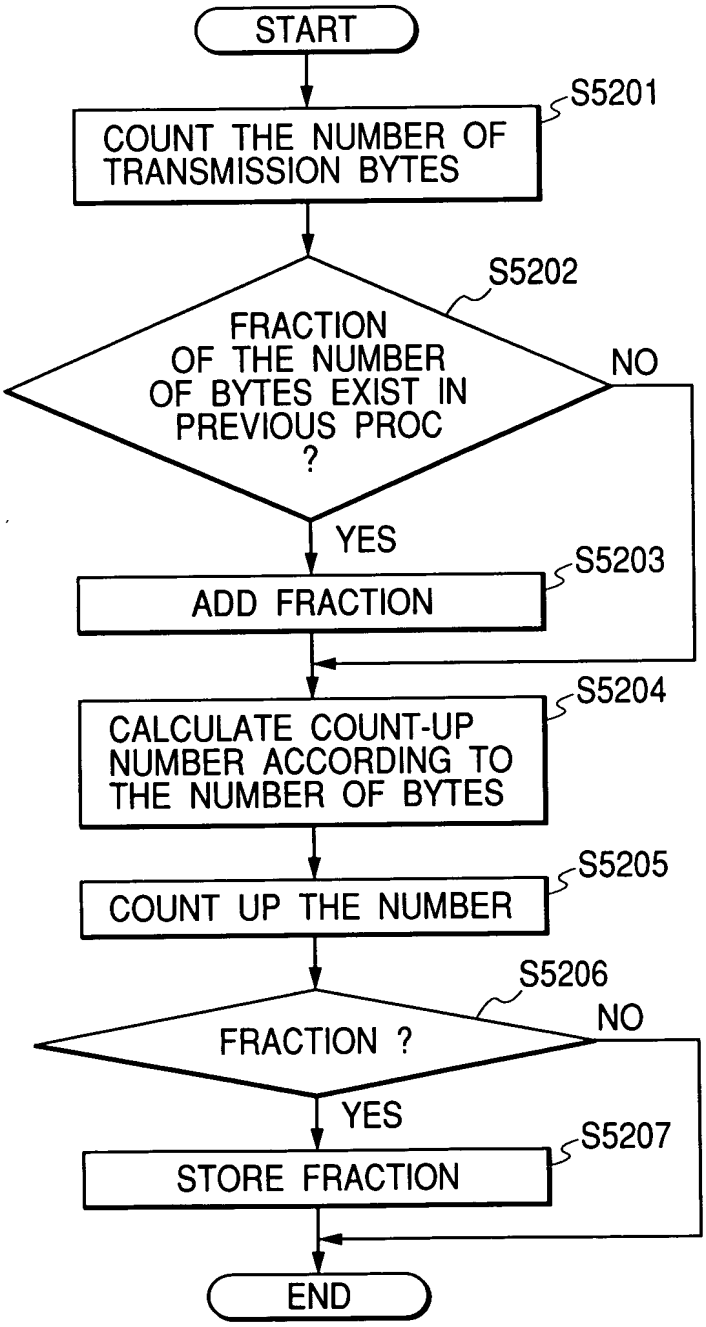
START
S5201
COUNT THE NUMBER OF TRANSMISSION BYTES
S5202
FRACTION OF THE NUMBER OF BYTES EXIST IN PREVIOUS PROC ?
NO
YES
S5203
ADD FRACTION
S5204
CALCULATE COUNT-UP NUMBER ACCORDING TO THE NUMBER OF BYTES
S5205
COUNT UP THE NUMBER
S5206
FRACTION ?
NO
YES
S5207
STORE FRACTION
END

FIG. 40

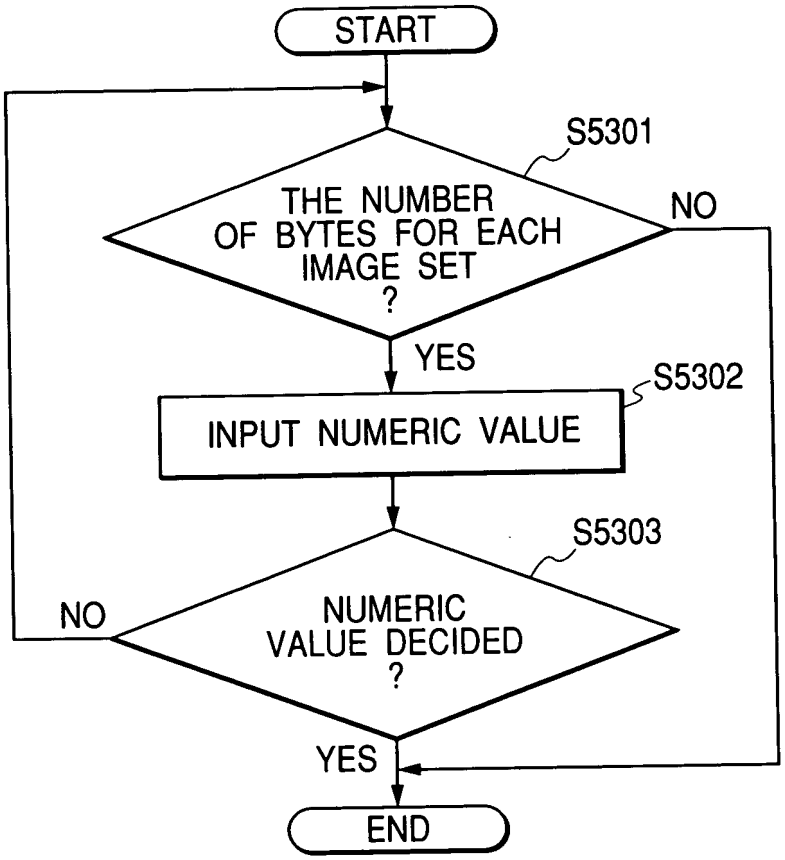
START
S5301
THE NUMBER OF BYTES FOR EACH IMAGE SET ?
NO
YES
S5302
INPUT NUMERIC VALUE
S5303
NUMERIC VALUE DECIDED ?
NO
YES
END

FIG. 41

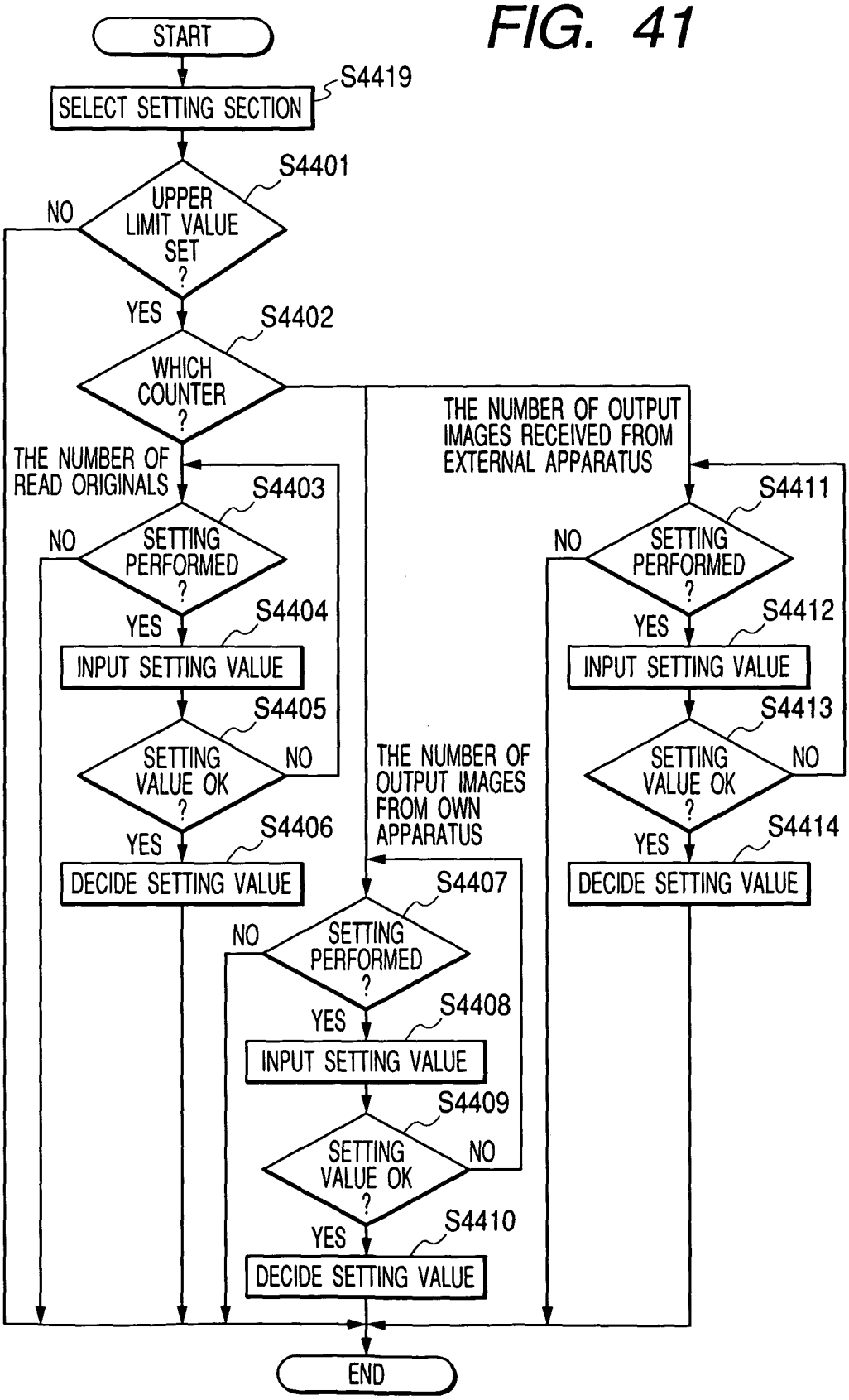
START
S4419
SELECT SETTING SECTION
S4401
UPPER LIMIT VALUE SET ?
NO
YES
S4402
WHICH COUNTER ?
THE NUMBER OF READ ORIGINALS
S4403
SETTING PERFORMED ?
NO
YES
S4404
INPUT SETTING VALUE
S4405
SETTING VALUE OK ?
NO
YES
S4406
DECIDE SETTING VALUE
THE NUMBER OF OUTPUT IMAGES FROM OWN APPARATUS
S4407
SETTING PERFORMED ?
NO
YES
S4408
INPUT SETTING VALUE
S4409
SETTING VALUE OK ?
NO
YES
S4410
DECIDE SETTING VALUE
THE NUMBER OF OUTPUT IMAGES RECEIVED FROM EXTERNAL APPARATUS
S4411
SETTING PERFORMED ?
NO
YES
S4412
INPUT SETTING VALUE
S4413
SETTING VALUE OK ?
NO
YES
S4414
DECIDE SETTING VALUE
END

FIG. 42

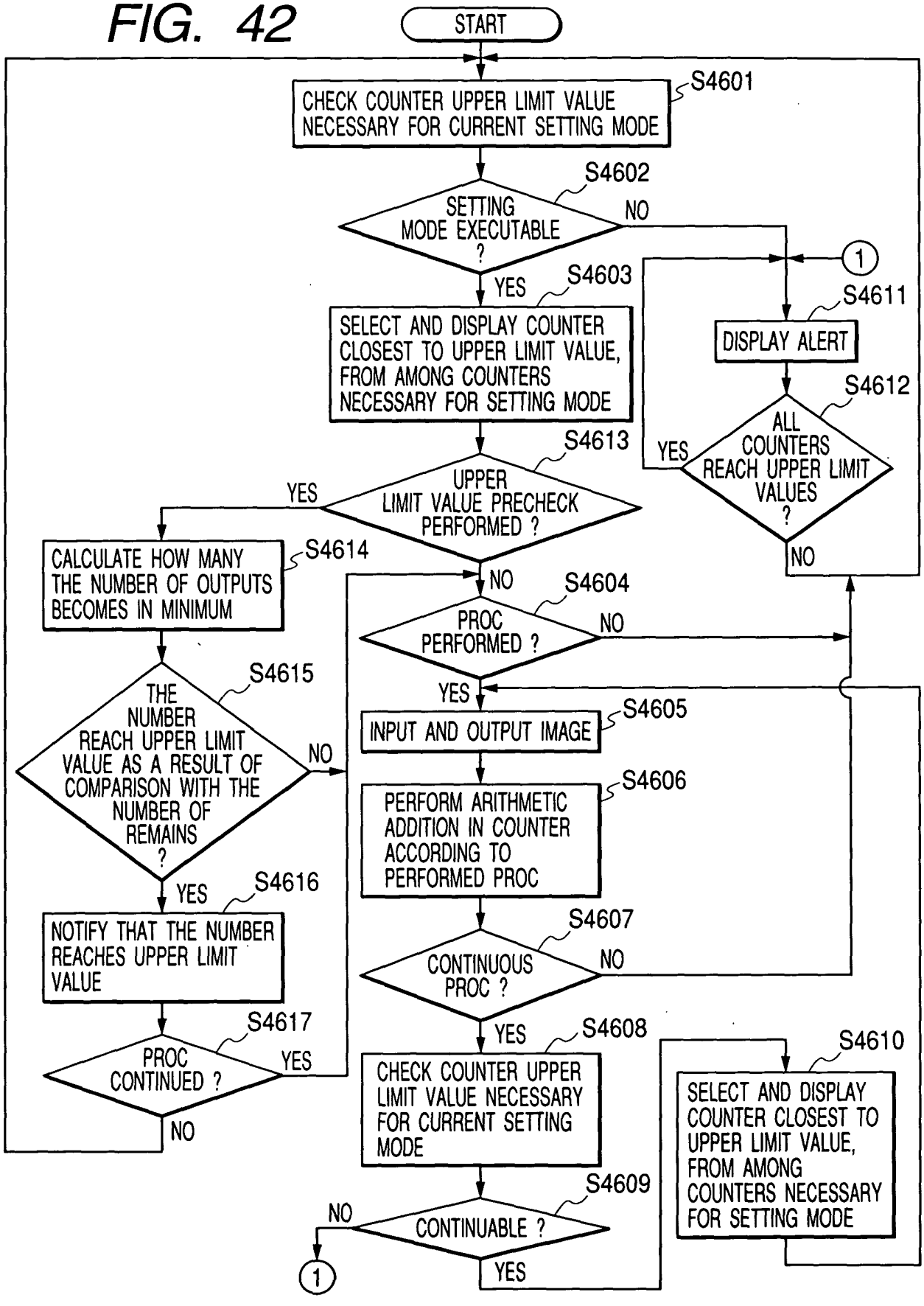
START
CHECK COUNTER UPPER LIMIT VALUE NECESSARY FOR CURRENT SETTING MODE
S4601
SETTING MODE EXECUTABLE ?
S4602
NO
YES
SELECT AND DISPLAY COUNTER CLOSEST TO UPPER LIMIT VALUE, FROM AMONG COUNTERS NECESSARY FOR SETTING MODE
S4603
DISPLAY ALERT
S4611
ALL COUNTERS REACH UPPER LIMIT VALUES ?
S4612
YES
NO
1
UPPER LIMIT VALUE PRECHECK PERFORMED ?
S4613
YES
NO
CALCULATE HOW MANY THE NUMBER OF OUTPUTS BECOMES IN MINIMUM
S4614
PROC PERFORMED ?
S4604
NO
YES
THE NUMBER REACH UPPER LIMIT VALUE AS A RESULT OF COMPARISON WITH THE NUMBER OF REMAINS ?
S4615
NO
YES
INPUT AND OUTPUT IMAGE
S4605
PERFORM ARITHMETIC ADDITION IN COUNTER ACCORDING TO PERFORMED PROC
S4606
NOTIFY THAT THE NUMBER REACHES UPPER LIMIT VALUE
S4616
CONTINUOUS PROC ?
S4607
NO
YES
PROC CONTINUED ?
S4617
YES
NO
CHECK COUNTER UPPER LIMIT VALUE NECESSARY FOR CURRENT SETTING MODE
S4608
SELECT AND DISPLAY COUNTER CLOSEST TO UPPER LIMIT VALUE, FROM AMONG COUNTERS NECESSARY FOR SETTING MODE
S4610
CONTINUABLE ?
S4609
NO
YES
1

FIG. 43

READ ORIGINAL NUMBER COUNTER	OWN APPARATUS IMAGE OUTPUT NUMBER COUNTER	EXTERNALLY RECEIVED IMAGE OUTPUT NUMBER COUNTER	EXECUTABLE PROC
○	○		COPY
○			BOX (STORAGE)
	○		BOX (OUTPUT)
○			PRINT (TRANSMISSION)
		○	PRINT (RECEPTION)

FIG. 44

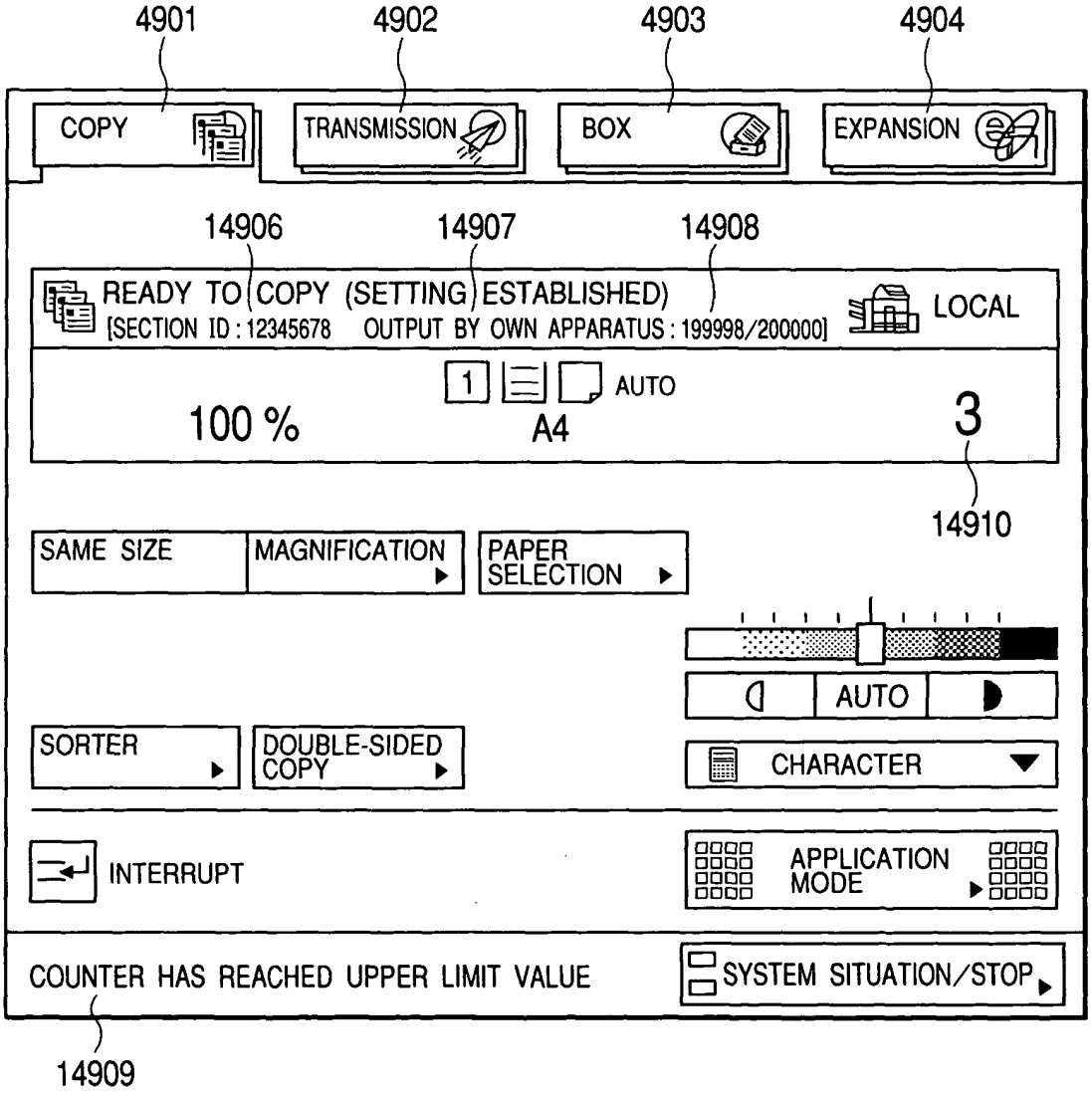
4901
4902
4903
4904
COPY
TRANSMISSION
BOX
EXPANSION
14906
14907
14908
READY TO COPY (SETTING ESTABLISHED)
[SECTION ID : 12345678 OUTPUT BY OWN APPARATUS : 199998/200000]
LOCAL
1
AUTO
100 %
A4
3
14910
SAME SIZE
MAGNIFICATION
PAPER SELECTION
AUTO
SORTER
DOUBLE-SIDED COPY
CHARACTER
INTERRUPT
APPLICATION MODE
COUNTER HAS REACHED UPPER LIMIT VALUE
SYSTEM SITUATION/STOP
14909

FIG. 45

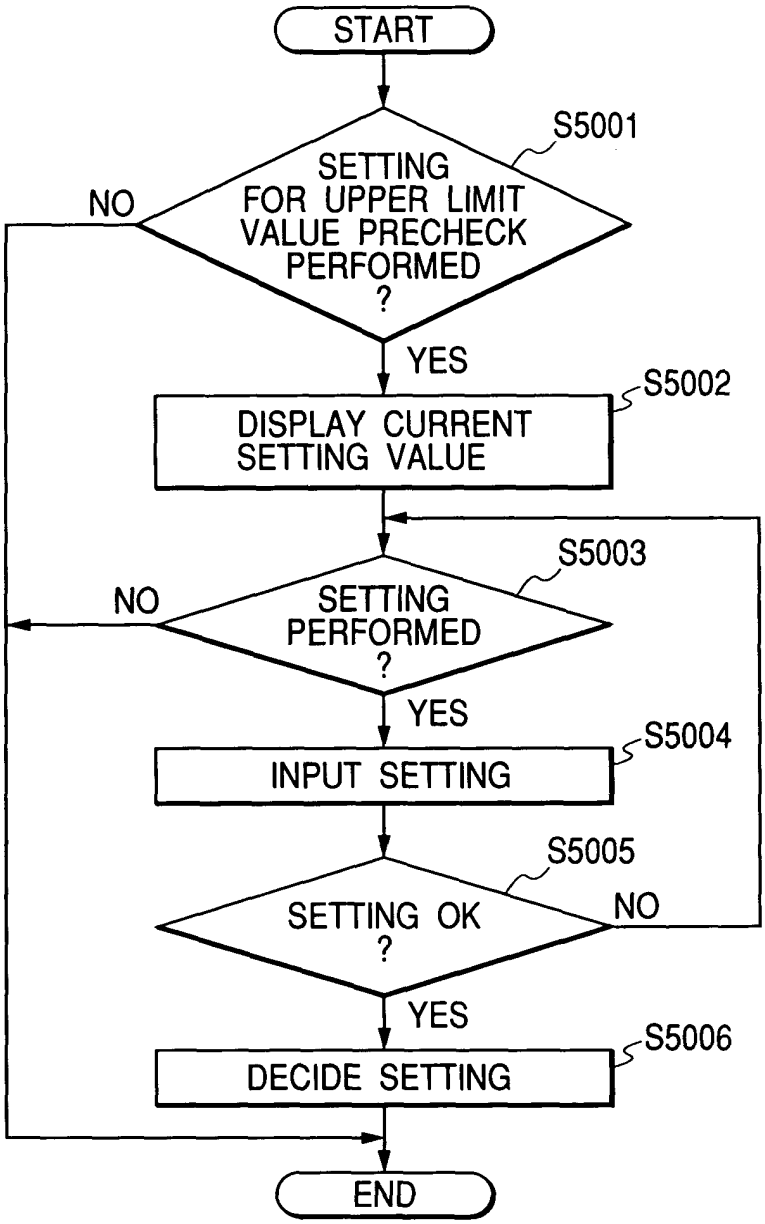
START
S5001
SETTING FOR UPPER LIMIT VALUE PRECHECK PERFORMED ?
NO
YES
S5002
DISPLAY CURRENT SETTING VALUE
S5003
SETTING PERFORMED ?
NO
YES
S5004
INPUT SETTING
S5005
SETTING OK ?
NO
YES
S5006
DECIDE SETTING
END

FIG. 46

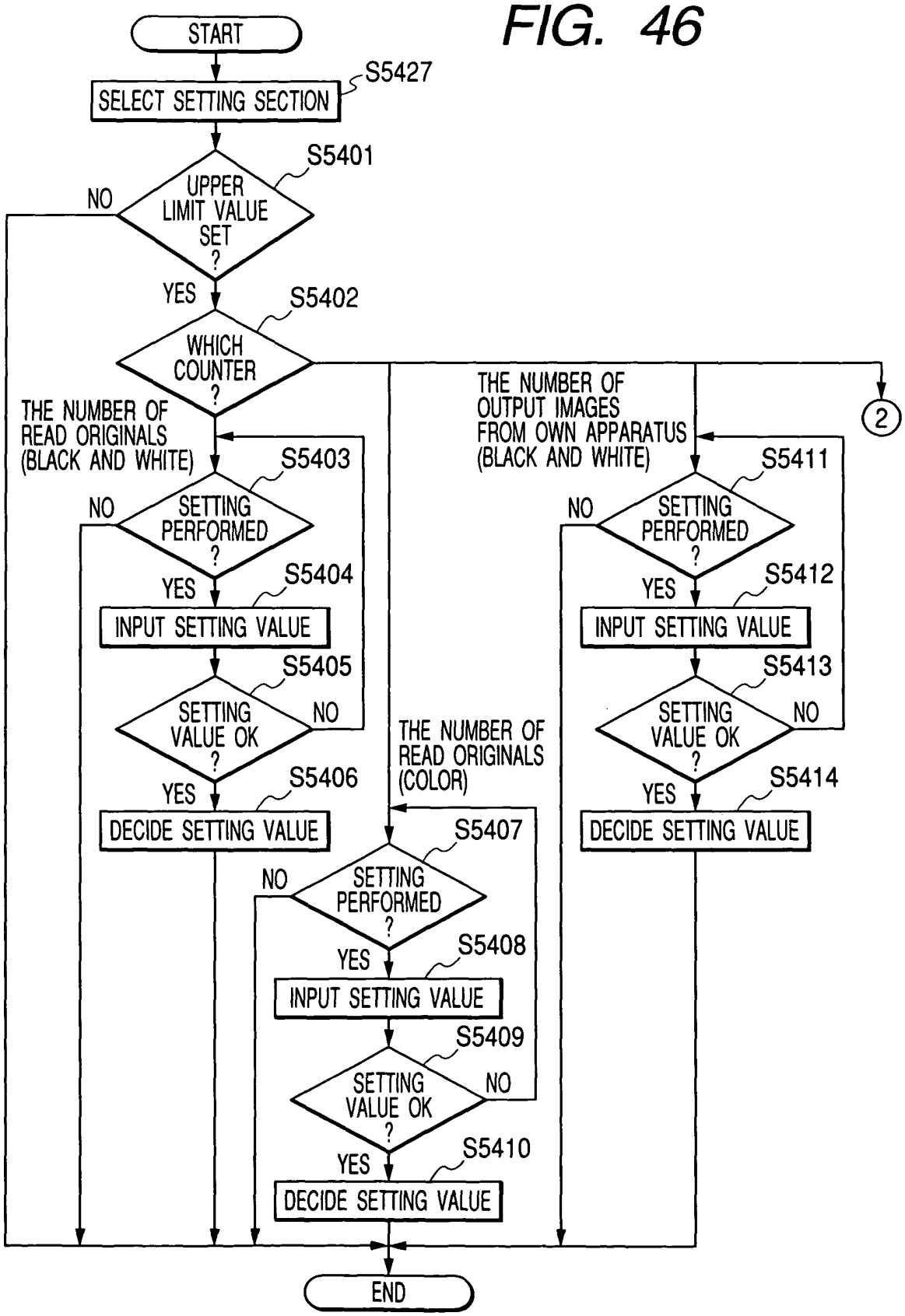
START
SELECT SETTING SECTION
S5427
S5401
UPPER LIMIT VALUE SET ?
NO
YES
S5402
WHICH COUNTER ?
THE NUMBER OF READ ORIGINALS (BLACK AND WHITE)
S5403
SETTING PERFORMED ?
NO
YES
S5404
INPUT SETTING VALUE
S5405
SETTING VALUE OK ?
NO
YES
S5406
DECIDE SETTING VALUE
THE NUMBER OF READ ORIGINALS (COLOR)
S5407
SETTING PERFORMED ?
NO
YES
S5408
INPUT SETTING VALUE
S5409
SETTING VALUE OK ?
NO
YES
S5410
DECIDE SETTING VALUE
THE NUMBER OF OUTPUT IMAGES FROM OWN APPARATUS (BLACK AND WHITE)
S5411
SETTING PERFORMED ?
NO
YES
S5412
INPUT SETTING VALUE
S5413
SETTING VALUE OK ?
NO
YES
S5414
DECIDE SETTING VALUE
2
END

FIG. 47

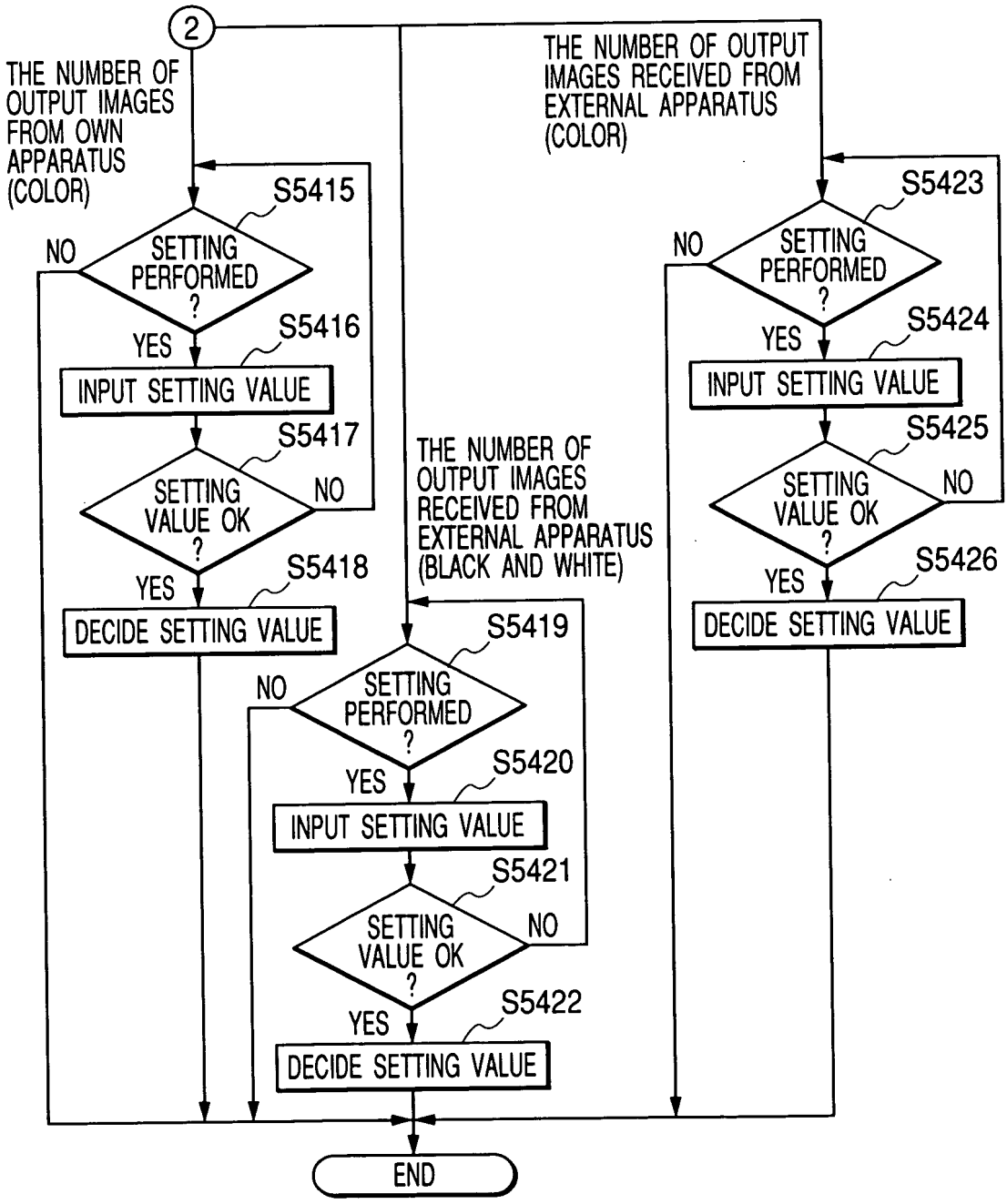
2
THE NUMBER OF OUTPUT IMAGES FROM OWN APPARATUS (COLOR)
S5415
SETTING PERFORMED ?
NO
YES
S5416
INPUT SETTING VALUE
S5417
SETTING VALUE OK ?
NO
YES
S5418
DECIDE SETTING VALUE
THE NUMBER OF OUTPUT IMAGES RECEIVED FROM EXTERNAL APPARATUS (BLACK AND WHITE)
S5419
SETTING PERFORMED ?
NO
YES
S5420
INPUT SETTING VALUE
S5421
SETTING VALUE OK ?
NO
YES
S5422
DECIDE SETTING VALUE
THE NUMBER OF OUTPUT IMAGES RECEIVED FROM EXTERNAL APPARATUS (COLOR)
S5423
SETTING PERFORMED ?
NO
YES
S5424
INPUT SETTING VALUE
S5425
SETTING VALUE OK ?
NO
YES
S5426
DECIDE SETTING VALUE
END

FIG. 48

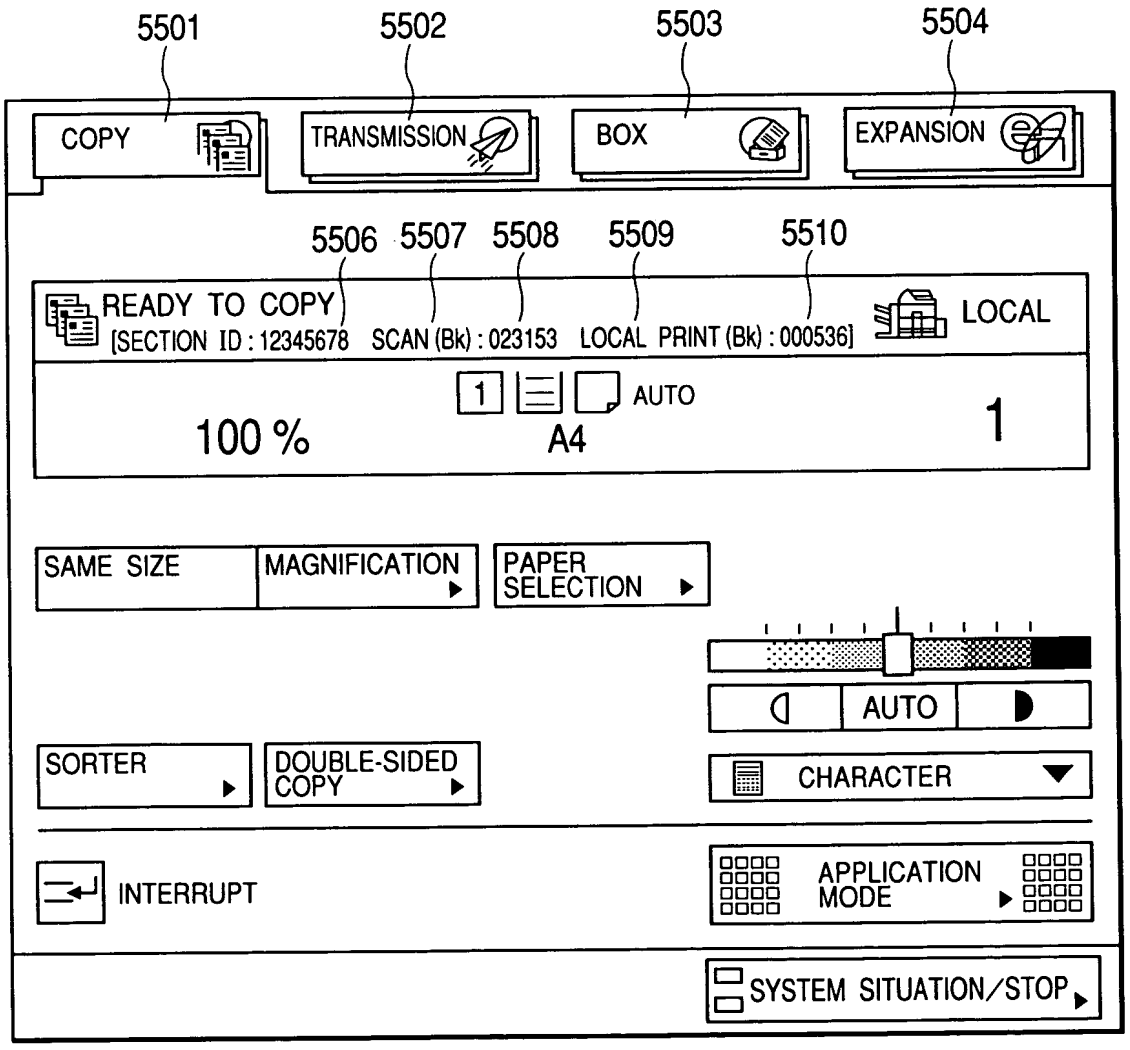
5501
5502
5503
5504
COPY
TRANSMISSION
BOX
EXPANSION
5506
5507
5508
5509
5510
READY TO COPY
[SECTION ID : 12345678
SCAN (Bk) : 023153
LOCAL PRINT (Bk) : 000536]
LOCAL
1
AUTO
100 %
A4
1
SAME SIZE
MAGNIFICATION
PAPER SELECTION
AUTO
SORTER
DOUBLE-SIDED COPY
CHARACTER
INTERRUPT
APPLICATION MODE
SYSTEM SITUATION/STOP

FIG. 49

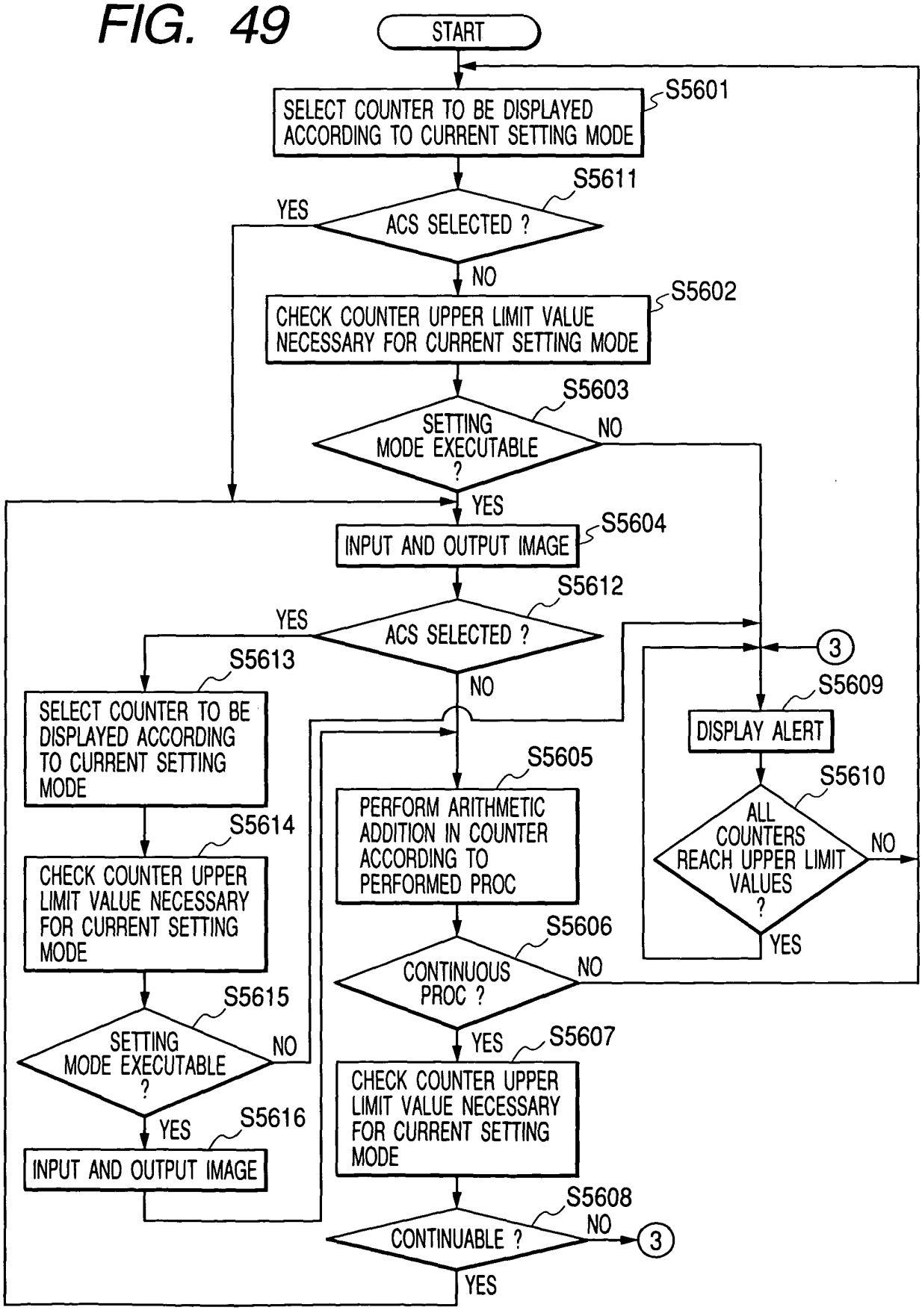
START
SELECT COUNTER TO BE DISPLAYED ACCORDING TO CURRENT SETTING MODE
S5601
S5611
YES
ACS SELECTED ?
NO
CHECK COUNTER UPPER LIMIT VALUE NECESSARY FOR CURRENT SETTING MODE
S5602
S5603
SETTING MODE EXECUTABLE ?
NO
YES
INPUT AND OUTPUT IMAGE
S5604
S5612
YES
ACS SELECTED ?
NO
3
S5613
SELECT COUNTER TO BE DISPLAYED ACCORDING TO CURRENT SETTING MODE
S5614
CHECK COUNTER UPPER LIMIT VALUE NECESSARY FOR CURRENT SETTING MODE
S5615
SETTING MODE EXECUTABLE ?
NO
YES
S5616
INPUT AND OUTPUT IMAGE
S5605
PERFORM ARITHMETIC ADDITION IN COUNTER ACCORDING TO PERFORMED PROC
S5606
CONTINUOUS PROC ?
NO
YES
S5607
CHECK COUNTER UPPER LIMIT VALUE NECESSARY FOR CURRENT SETTING MODE
S5608
CONTINUABLE ?
NO
3
YES
S5609
DISPLAY ALERT
S5610
ALL COUNTERS REACH UPPER LIMIT VALUES ?
NO
YES

FIG. 50

READ ORIGINAL NUMBER COUNTER (BLACK AND WHITE)	READ ORIGINAL NUMBER COUNTER (COLOR)	OWN APPARATUS IMAGE OUTPUT NUMBER COUNTER (BLACK AND WHITE)	OWN APPARATUS IMAGE OUTPUT NUMBER COUNTER (COLOR)	EXTERNALLY RECEIVED IMAGE OUTPUT NUMBER COUNTER (BLACK AND WHITE)	EXTERNALLY RECEIVED IMAGE OUTPUT NUMBER COUNTER (COLOR)	SETTING MODE
○		○				COPY (BLACK AND WHITE)
	○		○			COPY (COLOR)
○		○				COPY (COLOR MODE UNDECIDED)
○	○					BOX (STORAGE)
		○	○			BOX (OUTPUT)
				○	○	PRINT (RECEPTION)
○	○					PRINT (TRANSMISSION)

FIG. 51

READ ORIGINAL NUMBER COUNTER (BLACK AND WHITE)	READ ORIGINAL NUMBER COUNTER (COLOR)	OWN APPARATUS IMAGE OUTPUT NUMBER COUNTER (BLACK AND WHITE)	OWN APPARATUS IMAGE OUTPUT NUMBER COUNTER (COLOR)	EXTERNALLY RECEIVED IMAGE OUTPUT NUMBER COUNTER (BLACK AND WHITE)	EXTERNALLY RECEIVED IMAGE OUTPUT NUMBER COUNTER (COLOR)	EXECUTABLE PROC
○		○				COPY (BLACK AND WHITE)
	○		○			COPY (COLOR)
○						BOX (STORAGE, BLACK AND WHITE)
	○					BOX (STORAGE, COLOR)
		○				BOX (OUTPUT, BLACK AND WHITE)
			○			BOX (OUTPUT, COLOR)
				○		PRINT (RECEPTION, BLACK AND WHITE)
					○	PRINT (RECEPTION, COLOR)
○						PRINT (TRANSMISSION, BLACK AND WHITE)
	○					PRINT (TRANSMISSION, COLOR)

FIG. 52

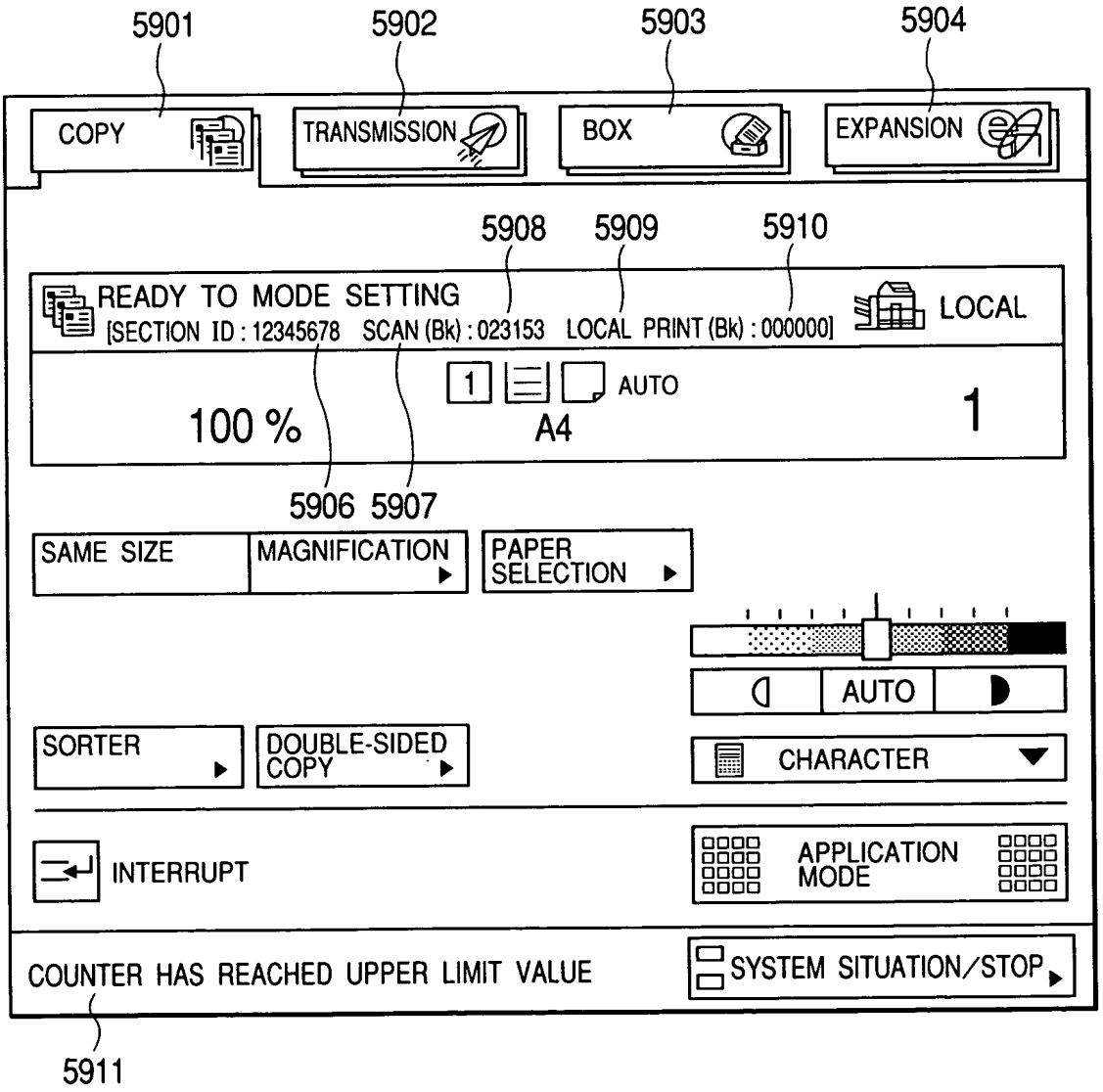
5901
5902
5903
5904
COPY
TRANSMISSION
BOX
EXPANSION
5908
5909
5910
READY TO MODE SETTING
[SECTION ID : 12345678 SCAN (Bk) : 023153 LOCAL PRINT (Bk) : 000000]
LOCAL
1
AUTO
100 %
A4
1
5906
5907
SAME SIZE
MAGNIFICATION
PAPER SELECTION
AUTO
SORTER
DOUBLE-SIDED COPY
CHARACTER
INTERRUPT
APPLICATION MODE
COUNTER HAS REACHED UPPER LIMIT VALUE
SYSTEM SITUATION/STOP
5911

FIG. 53

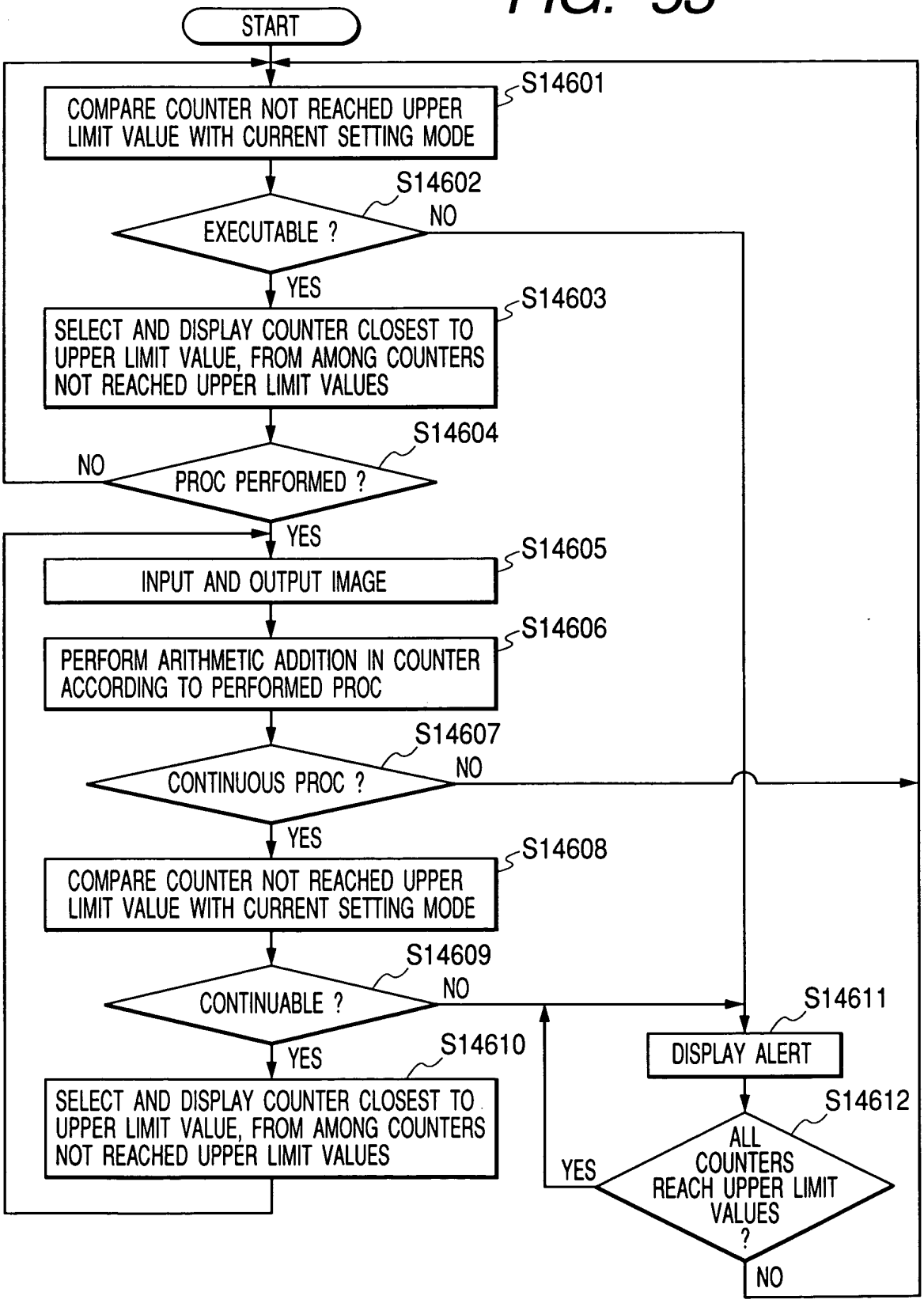
START
S14601
COMPARE COUNTER NOT REACHED UPPER LIMIT VALUE WITH CURRENT SETTING MODE
S14602
EXECUTABLE ?
NO
YES
S14603
SELECT AND DISPLAY COUNTER CLOSEST TO UPPER LIMIT VALUE, FROM AMONG COUNTERS NOT REACHED UPPER LIMIT VALUES
S14604
NO
PROC PERFORMED ?
YES
S14605
INPUT AND OUTPUT IMAGE
S14606
PERFORM ARITHMETIC ADDITION IN COUNTER ACCORDING TO PERFORMED PROC
S14607
CONTINUOUS PROC ?
NO
YES
S14608
COMPARE COUNTER NOT REACHED UPPER LIMIT VALUE WITH CURRENT SETTING MODE
S14609
CONTINUABLE ?
NO
YES
S14610
SELECT AND DISPLAY COUNTER CLOSEST TO UPPER LIMIT VALUE, FROM AMONG COUNTERS NOT REACHED UPPER LIMIT VALUES
S14611
DISPLAY ALERT
S14612
ALL COUNTERS REACH UPPER LIMIT VALUES ?
YES
NO

FIG. 54

READ ORIGINAL NUMBER COUNTER	OWN APPARATUS IMAGE OUTPUT NUMBER COUNTER	EXTERNALLY RECEIVED IMAGE OUTPUT NUMBER COUNTER	EXECUTABLE PROC
			COPY BOX (STORAGE, OUTPUT) PRINT (TRANSMISSION AND RECEPTION)
×			BOX (OUTPUT) PRINT (RECEPTION)
	×		BOX (STORAGE) PRINT (TRANSMISSION AND RECEPTION)
×	×		PRINT (RECEPTION)
		×	COPY BOX (STORAGE, OUTPUT) PRINT (TRANSMISSION)
×		×	BOX (OUTPUT)
	×	×	BOX (STORAGE) PRINT (TRANSMISSION)
×	×	×	

FIG. 55A

SECTION NAME	SECTION ID	UPPER LIMIT VALUE							
		READ SYSTEM		OUTPUT SYSTEM				TRANSMISSION SYSTEM	
		UPPER LIMIT VALUE OF THE NUMBER OF READ ORIGINALS (BLACK AND WHITE)	UPPER LIMIT VALUE OF THE NUMBER OF READ ORIGINALS (COLOR)	UPPER LIMIT VALUE OF THE NUMBER OF OUTPUT IMAGES READ BY OWN APPARATUS (BLACK AND WHITE)	UPPER LIMIT VALUE OF THE NUMBER OF OUTPUT IMAGES READ BY OWN APPARATUS (COLOR)	UPPER LIMIT VALUE OF THE NUMBER OF OUTPUT IMAGES RECEIVED FROM EXTERNAL APPARATUS (BLACK AND WHITE)	UPPER LIMIT VALUE OF THE NUMBER OF OUTPUT IMAGES RECEIVED FROM EXTERNAL APPARATUS (COLOR)	UPPER LIMIT VALUE OF THE NUMBER OF IMAGES OUTSIDE TRANSMITTED (BLACK AND WHITE)	UPPER LIMIT VALUE OF THE NUMBER OF IMAGES OUTSIDE TRANSMITTED (COLOR)
SECTION A	1234	200000	100000	150000	100000	150000	150000	5000	1000
SECTION B	5678	300000	0	300000	0	300000	0	100000	0
SECTION C	1111	100000	100000	100000	100000	100000	5000	UNREGISTERED	UNREGISTERED
SECTION D	UNREGISTERED	UNREGISTERED	UNREGISTERED	UNREGISTERED	UNREGISTERED	UNREGISTERED	UNREGISTERED	UNREGISTERED	UNREGISTERED
.					.				
.					.				
.					.				
.					.				
SECTION N	9999	20000	20000	UNREGISTERED	UNREGISTERED	UNREGISTERED	UNREGISTERED	10000	10000

FIG. 55B

	TOTAL DATA OF EACH COUNTER UP TO NOW							
	READ SYSTEM (A CLASSIFICATION)		OUTPUT SYSTEM (B CLASSIFICATION)				TRANSMISSION SYSTEM (C CLASSIFICATION)	
	ITEM 1	ITEM 2	ITEM 3	ITEM 4	ITEM 5	ITEM 6	ITEM 7	ITEM 8
	THE NUMBER OF READ ORIGINALS (BLACK AND WHITE)	THE NUMBER OF READ ORIGINALS (COLOR)	THE NUMBER OF OUTPUT IMAGES READ BY OWN APPARATUS (BLACK AND WHITE)	THE NUMBER OF OUTPUT IMAGES READ BY OWN APPARATUS (COLOR)	THE NUMBER OF OUTPUT IMAGES RECEIVED FROM EXTERNAL APPARATUS (BLACK AND WHITE)	THE NUMBER OF OUTPUT IMAGES RECEIVED FROM EXTERNAL APPARATUS (COLOR)	THE NUMBER OF IMAGES OUTSIDE TRANSMITTED (BLACK AND WHITE)	THE NUMBER OF IMAGES OUTSIDE TRANSMITTED (COLOR)
	30000	1280	25000	1000	2500	250	5000	280

FIG. 56

STORAGE MEDIUM SUCH AS FD, CD-ROM, OR THE LIKE

DIRECTORY INFORMATION
1ST DATA PROC PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 30
2ND DATA PROC PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 32
3RD DATA PROC PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 39
4TH DATA PROC PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 40
5TH DATA PROC PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 41
6TH DATA PROC PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 42
7TH DATA PROC PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 45
8TH DATA PROC PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIGS. 46, 47
9TH DATA PROC PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 49
10TH DATA PROC PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 53

MEMORY MAP OF STORAGE MEDIUM